

JEREMIAH LUPTON

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TECHNOLOGY ENGINEER | SOFTWARE ENGINEER | QUALITY ASSURANCE ENGINEER

Visionary technologist and strategic trailblazer with extensive experience in driving innovation, scaling global teams, and aligning technology with business objectives to attain organizational growth and operational excellence. Syndicates hands-on technical expertise with leadership acumen to transform complex challenges into scalable solutions. Specializes in crafting strategic technology roadmaps, leading cross-functional teams through digital transformations, and leveraging AI to enhance efficiency. Committed to fostering inclusive, collaborative environments that prioritize continuous learning and technical excellence. Proficient in English and intermittent is Spanish, with a proven ability to navigate diverse cultural landscapes, leading and contributing massive positive contributions to global teams in high-pressure environments.

Key Strengths:

- **Digital Transformation:** Lead complex digital transformations, from legacy system integration to AI-driven innovations.
- **Innovation & Scalability:** Architect and implement scalable solutions that solve complex technical challenges, reduce costs, and enhance end-user experiences.
- **Strategic Alignment:** Align technology strategies with business goals to drive growth and increase profitability.
- **Team Development:** Cultivate high-performing, cross-functional teams through mentorship, and leadership development.
- **Technological Leadership:** Strategically integrate cutting-edge technologies with business operations, ensuring scalability, security, and efficiency.

AREAS OF EXPERTISE

Data Visualization | Statistical Programming | People Management | Leadership Development | Global Cross-Functional | Database Architecture | Data Cleansing | Performance Optimization | Programming | Data Warehousing | Data Modeling | Strategic Technology Roadmaps | Mentorship & Leadership | Change Management | Data Analyst | Digital Transformation | Lean Six Sigma | Excellent Communication Skillset | Collaborative Exertion | Automation | Research | Selenium | Cucumber | Mathematics | Business Analysis | Multi-Thread Programming | SEO | Application Programming Interface | Data Science | Artificial Intelligence & Machine Learning | Cloud Migration | Project Scoping | Product Innovation | Architecture Standards | System Scalability | Natural Language Processing | Regulatory Compliance | Security Protocols | Network Security | InfoSec | Process Improvement | Predictive Maintenance | SQL | Quality Assurance | Jira | Time-Series Forecasting | Coding (Python, Java, JavaScript, TypeScript, R, CSS, HTML, C++, GO, and Ruby)

COMPETENCIES | ACUMEN

INDUSTRIES: Financial Services, Healthcare Technology, Non-Profit Organizations, Retail & E-Commerce, Start-ups, Telecommunications

TECHNOLOGY & TOOLS: Azure, AWS, Confluence, Python, GCP, C/C#/C++, Jenkins, SQL, SaaS, Apache, Elastic Stack (ELK), Java, JavaScript, Jira, CSS, HTML, TypeScript

APPROACHES & METHODOLOGIES: DevSecOps, Site Reliability Engineering (SRE), Agile, Scrum Master, CI/CD, Zero Trust Architecture, Scalable Architecture Design, Data Security Best Practices, Platform Evaluation, Code Review, AI & Machine Learning, Design Thinking, Chaos Engineering

SOFTWARE DEVELOPMENT & PROGRAMMING: Microservices Architecture, Functional Programming, Software Architecture & Engineering, SDLC, DevOps & Automation, Container Orchestration, Continuous Integration & Deployment

DATA MANAGEMENT & INTEGRATION: Data Science, Power BI, Big Data, Event-Driven Architecture, Architecture & Modeling, EDI Integration, Metadata Management, ERP/CRM Integration

PROFESSIONAL EXPERIENCE | KEY ACHIEVEMENTS

Revature

Technology solution services provider for DoD and various commercial giants, including Verizon, Cognizant, and Kaiser Permanente.

Software Engineer | Quality Assurance Engineer

March 2022 | Jan 2025

Engineered systems design and contributed to long-term technical vision, aligning architecture with strategic business goals. Championed digital transformation integrating legacy systems, enhancing ERP with AI-driven analytics. Implemented EDI for clients such as Cognizant, Verizon, and Kaiser Permanente to improve supply chain efficiency. Applied Generative AI in CRM to automate

sales processes and increase customer engagement. Customized interface development to improve end-user toolchain. Piloted IT operations by implementing Helpdesk change control board, streamlining workflows, and deploying enterprise BI for real-time analytics.

Key Skills: Database Optimization, Software Development, System Integration, AI & Agile Transformation, Data Analyst, Inventory Forecasting, Automation

- Deployed Qlik across the organization, enabling real-time analytics that supported strategic planning, enhanced resource allocation, and provided critical insights.
- Applied Generative AI to automate sales processes within CRM systems, leading to a significant increase in customer engagement and a 375% boost in productivity and improved on-time delivery rates by 88%.
- Led the integration of legacy systems with custom .NET analytic interfaces, significantly enhancing ERP/MES/MRP
- Design and developed interfaces for multi-device use, enhancing user satisfaction across platforms and implemented CI/CD to maintain code currency, ensuring team alignment.
- Conduct software testing to improve reliability and functionality, collaborating with global teams to debug and optimize software for seamless performance and documented best practices in Java, Python, React, and Node for knowledge sharing.
- Drove continuous improvement through architectural reviews in SDLC. Explored alternative technologies to select optimal solutions for client requirements transforming client requirements into functional specifications, creating wireframe designs for innovative product concepts.
- Spearhead multi-device interface design, elevating user satisfaction across platforms while implementing CI/CD for code currency and team alignment.
- Conduct thorough software testing to enhance reliability, collaborating with cross-functional teams to debug and optimize performance for seamless user experience.
- Drive continuous improvement through architectural reviews in SDLC, exploring cutting-edge technologies to deliver optimal solutions tailored to client needs.
- Transform complex client requirements into functional specifications, creating innovative wireframe designs that push the boundaries of product concepts.

Sun Basket

Business and technology solutions provider in the aerospace and defense industry serving Boeing, Lockheed, UPS, and others.

Data Team Lead

September 2021 | February 2022

Promoted from Data Team Associate to lead the data team in application development and training, driving innovation with Prùvit. Secured long-term contracts and expanded market share to accelerate growth and solidify industry presence. Developed predictive analytics for F35 JSF program that improved fleet readiness. Led cloud migration efforts, enhancing scalability, security, and cost efficiency. Overhauled processes by implementing agile methodologies that elevated customer satisfaction.

Key Skills: Client Relations, Predictive Analytics, Cloud Migration, Training & Leadership Development, Business Development, NAV Systems

- Achieved 80% renewal rates by ensuring FAA compliance and maintaining proactive communication, by building and maintaining strong client relationships with industry leaders.
- Developed advanced machine learning-based predictive analytics systems for the F35 JSF, F22, and F18 programs, improving fleet readiness by reducing aircraft downtime by 40% and enhancing maintenance precision by 60%, shifting the approach from reactive to proactive maintenance.
- Spearheaded training and development programs for clients and staff, increasing participation by 25% and fostering a culture of continuous improvement, by implementing change management strategies that elevated technical excellence and aligned client operations with industry best practices.
- Architected and integrated complex systems using a variety of technologies including .NET, Java, and Python, improving operational efficiency and compliance by implementing robust software solutions that reduced manual processes and enhanced system reliability across multiple platforms.
- Led data team, optimized NAV access, streamlined payroll, boosting efficiency and productivity significantly boosting overall operational effectiveness and team productivity.
- Mentored data technicians on network systems, fostering team growth and collaboration while enhancing technical skills.
- Liaised with HR to streamline leave of absence and benefits management, substantially improving team support and
- Implemented data-driven strategies to improve inventory management and FEFO compliance, driving operational
- Spearheaded data team initiatives, enhancing NAV accessibility and payroll processes. Resulted in marked improvements in operational efficiency and team output.
- Guided data technicians in network systems, fostering a culture of knowledge sharing. Enhanced technical proficiency across the department.

Getty Digital Corp

Technology startup connecting clients and developer services remotely..

Lead Developer and Designer

June 2015 | August 2019

Spearheaded Agile development of technology-based services. Implemented user-centric designs, simplifying grants and driving acceptance. Developed and managed databases, websites, and social media presence for various start-up and small companies bringing their innovative dreams to digital platforms, creating an established presence in the technological world.

Key Skills: Agile Development, Cloud Architecture, Database Architecture, Leadership and Mentorship, Cross-Functional Collaboration, Web Development and Design, Software Development and Test, Quality Assurance

- Led team interviews, reducing turnover, enhancing integration, and ensuring smooth onboarding.
- Processed payroll with precision, ensuring timely and accurate compensation for all employees.
- Guided junior designers in accessibility, achieving full compliance across all projects.
- Increased 5-star reviews by 135% through effective responsive UI development.
- Optimized SEO and content strategies, driving significant audience growth and engagement.
- Pioneered responsive UI development, substantially increasing 5-star reviews and enhancing user experience across digital platforms.
- Mentored junior designers in accessibility standards, fostering inclusive design practices and achieving full project compliance.
- Spearheaded conceptualization and prototyping of landing pages, propelling product development initiatives and fostering innovation.
- Optimized SEO and content strategies, driving considerable audience growth and improving digital engagement metrics.
- Created comprehensive documentation to streamline onboarding processes, enhancing team integration and efficiency.
- Spearheaded UI development initiatives, resulting in substantial increase in 5-star reviews and enhanced user experience across diverse digital platforms.

Live Music Tutor

Music education startup connecting people to learn and share as an online learning community.

Developer (Front-end and Back-end)

March 2014 | June 2016

Spearheaded Agile development of award-winning SaaS music training platform with a small group of engineers on small budget (less than 750K). Implemented user centric design, simplifying grants and driving adoption. Obtained funding positioning company as leader while building high-performing team and promoting rapid innovation. Engaged with experts to align platform with educators' needs, fostering dynamic learning community.

Key Skills: Agile Development, Cloud Architecture, Mentorship, Collaborative Teamwork, Cross-Functional Collaboration, Web Development and Design, Software Development, Software and Web Testing

- Engaged in rapid Agile development of a minimum viable product (MVP) in six months, with 1,000 users, through continuous user feedback, launching a scalable, cloud-based platform that supported real-time virtual music lessons.
- Architected a robust cloud-based solution utilizing PHP, MySQL, and AWS Cloud to deliver high-quality, low-latency video and audio streaming, supporting seamless real-time media streaming for up to 32,000 concurrent users with 99.99% uptime and 23ms latency.
- Fostered a high-performance culture centered on Agile methodologies, resulting in increased development velocity, and rapid iteration and enhancement of the platform.
- Implemented a data-driven approach to platform optimization, leveraging user feedback to refine the product continuously, improving lesson completion rates to 96% and user satisfaction to 94%.
- Developed user interfaces with modern frameworks, significantly enhancing user satisfaction. Created object-oriented Node.js code, adhering to industry standards.
- Crafted cutting-edge extensions and applications using AJAX, jQuery, JSON, DOM, and OpenTok, ensuring seamless functionality and future-ready solutions.
- Fostered cross-functional teamwork to deliver responsive, accessible interfaces across devices. Contributed to continuous improvement of development processes and standards.
- Pioneered RESTful APIs with MongoDB, revolutionizing data efficiency and user submission processes, crafting responsive interfaces, driving a substantial increase in UX/UI ratings.

- Boosted user satisfaction through modern frameworks and accessible design. Implemented AJAX and jQuery to enhance system reliability and performance significantly.
- Optimized application functionality using multi-threading and design patterns. Developed object-oriented Node.js code, adhering to industry best practices.

D.B.A. Entertainment

Non-profit organization that hosted event to raise money for families in need.

Assistant Manager | Web Developer and Designer

June 1998 | March 2014

Managed Agile professional services for non-profit organization, scaling teams and optimizing workflows. Developed and presented detailed training resources and strategic communication plans to drive effective change management. Facilitated adoption of new digital CMS processes by clients, ensuring smooth transition and simplified tracking of progress through digital blueprint.

Key Skills: Change management, Agile Scaling, Web Development, Database Architecture, Client Relationship Management, Cloud Strategy, CMS Integration, Assistant Manager

- Enhanced recommendation engine, boosting user engagement by 120% through data collaboration.
- Migrated systems to AWS, improving load speeds by 44% and cutting costs.
- Developed web apps with React.js, increasing audience engagement by 18%.streamlining reporting, achieving a 3.8% budget surplus.
- Designed cohesive branding materials, elevating market presence by orchestrating systems migration to AWS, yielding a 43% improvement in load speeds and significant cost reductions.
- Engineered web applications using React.js and Angular.js, significantly boosting target audience engagement and enhanced user experience.
- Spearheaded migration from Firebase to AWS, resulting in improved load speeds and cost reduction, showcasing strategic foresight.
- Crafted cohesive branding elements including logo and digital ads, working closely with marketing team to elevate company's market presence.
- Pioneered web app development using React.js and Angular.js, substantially elevating user engagement and experience for the target audience.
- Analyzed and enhanced recommendation engine, resulting in a notable 162% boost in user engagement through strategic data collaboration.

EDUCATION

DOCTOR OF PHILOSOPHY (PH.D.) | Technology Management Specialization Engineering Management | National University - Present

MASTER OF SCIENCE (MS) | Information Technology Specialization Project Management | American InterContinental University - 2023

BACHELOR OF SCIENCE (BS) | Information Technology Specialization Security & Assurance | American InterContinental University - 2021

ASSOCIATES OF ARTS | Business Administration Specialization Criminal Justice | American InterContinental University - 2011

CERTIFICATIONS

DATA SCIENCE AND MATH SKILLS (DSMS) | DUKE UNIVERISTY

FOUNDATION: DATA, DATA, EVERYWHERE | GOOGLE

AWARDS, HONORS, AND HONOR SOCIETY

Dean's List (*Multiple*)

President Academics Excellence Award (*Multiple*)

Magna Cum Laude

Graduated with Honor

Epsilon Pi Tau - International Honors Society for Technology