Edward Kemper

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TECHNICAL PROGRAM MANAGER / SENIOR SOFTWARE ENGINEER

11 years of experience leading cross-functional teams to deliver scalable software solutions. Skilled at driving complex programs from inception to completion while ensuring alignment across engineering, product, and business objectives. Experienced in conducting security audits, implementing DevOps best practices, and enhancing system observability. Adept at risk management, workflow optimization, and fostering cross-team collaboration. A proactive leader who champions growth through empathy and trust. PMP certification in progress.

PROFESSIONAL EXPERIENCE

Technical Project Manager (Construction) — Denver, CO | Jan 2025 – Present
Freelance

- **Develops and maintains project roadmaps**, Gantt charts, and milestone tracking for initiatives exceeding $100k ensuring high quality and timely delivery.
- **Manages** and coordinates meetings with subcontractors to ensure adherence to project timelines, alignment on priorities, and clarity of deliverables.
- **Defines program scope**, objectives, and success criteria with stakeholders, managing risks, timelines, and change requests.

Senior Software Engineer | Feb 2024 – July 2024
Medical Solutions — Remote

- **Built REST API MVP** solution with developer-friendly documentation to support a digital platform for short-term clinician contract management and compliance tracking.
- **Collaborated with product** and QA teams to implement robust testing strategies and reduce post-release defects.

Senior Software Engineer | Jan 2023 – June 2023
Sparkplug — Remote

- **Built third-party API integrations** to optimize vendor integration workflows and API design, supporting enterprise business development.
- **Partnered with data and platform teams** to align schema migrations with business analytics goals and product timelines.

Senior Software Engineer / Team Lead | 2020 – 2022
Storyblocks — Remote

- **Drove successful product development** by leading agile sprint ceremonies, managing project risks, and ensuring team alignment—leading to a 15% increase in team velocity and stronger team cohesion.
- **Managed a team** delivering an enterprise free trial subscription workflow, optimizing cross-team alignment and reducing B2B contract close times by 20%.
- **Developed critical internal tools** used by 200+ employees by defining and prioritizing engineering deliverables for the enterprise growth team improving internal API accessibility and enhancing developer productivity.
- **Implemented a structured mentorship program** including weekly one-on-one's, tailored growth plans, and performance reviews which contributed to improved team development and velocity.
- Monitored team capacity and **implemented continuous process improvement** based on retrospective insights and delivery metrics.

2016 – 2020
Other Relevant Software Engineering Experience — IHS Markit, Proximity Inc.

- **Collaborated with product teams** to deliver financial data visualization solutions to a client serving >1M users per day.
- **Established core agile processes** and standards for a newly formed engineering team, driving a 10% improvement in delivery velocity and team efficiency.
- **Implemented automated testing procedures** with Vue.js, PHP, and Docker, leading to improved deployment stability and

developer confidence across the company.

Technical Program Manager / Founder | 2013 – 2017

Kemper Systems LLC — Flagstaff, AZ

- **Spearheaded the development** of an innovative system to measure high-frequency dielectric properties of custom materials, which became the company-wide standard for testing, directly contributing to future product development for projects valued at ~$200k each.
- **Oversaw technical project execution end-to-end**, coordinating across multiple stakeholders, guiding the integration of technical designs with business objectives, ensuring adherence to quality and regulatory standards.
- **Transformed business requirements** into an actionable engineering roadmap; collaborated with engineering leaders and key stakeholders to define project milestones, own change management processes, manage budgets, and proactively mitigate risks while ensuring timely delivery.
- **Defined OKRs and KPIs** to track execution, evaluate impact, and inform future roadmap prioritization.
- **Implemented full-system configurations** and integrated stakeholder requirements into working prototypes for specialized test systems.

Co-founder / Developer | 2014 – 2016

HelpTile.com — Flagstaff, AZ

- **Accelerated software product delivery** by implementing an end-to-end (E2E) testing strategy ensuring the quality and robustness of releases.
- **Established telemetry** to evaluate user engagement, enabling data-driven product development and strategic decision-making.
- **Ensured data security** by reshaping the platform's security posture and performing a cybersecurity audit with an external consultant.
- **Enabled** experimentation-driven development through observability pipelines—critical to iterative improvement of the the platform.

Engineer / Project Manager | 2013

Northern Arizona University — Flagstaff, AZ

- **Engineered a novel scientific instrument** to quantify insecticide concentrations in water and assess environmental pollution levels.
- **Led system design** and implementation ensuring alignment on technical requirements.
- **Managed interdisciplinary collaboration** across academic departments—skills directly applicable to building educational platforms with diverse expertise.

CORE COMPETENCIES

SDLC • Technical Program Management • Technical Project Management • Team Leadership • Stakeholder Communication • Cross-team Collaboration • Servant Leadership • Agile Methodologies • Prompt Engineering • Change Request Management • Technical Requirements Analysis • Risk Assessment & Mitigation • SQL / Analysis • Quality Assurance • Full-Stack Engineering • Budgeting & Resource Allocation • Process Improvement • Machine Learning • AI Integrations • Scientific Computing • Electro-Mechanical Design • Control & Automation Systems • Program Configuration • Technology Integration • Client Implementation • Webhooks • API Configuration

TECHNICAL SKILLS

Frontend: React • Vue.js
Backend: Node.js • Typescript • Python • PHP
Database Design: MySQL • PostgreSQL • MongoDB
API Development: Public REST APIs
Testing & Automation: Selenium • Cypress • Jest
Infrastructure & CI/CD: AWS • Google Cloud Platform • Pulumi • GitHub • Docker • Linux
Cybersecurity: Best Practices
Project Management Tools: Jira • Linear • Asana • Figma • Notion

EDUCATION

MS Electrical Engineering – Northern Arizona University, 2014
BS Physics, Minor in Applied Mathematics – Humboldt State University, 2007