

Jared Bovard

Remote Principal Software Engineer

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SUMMARY

Principal software engineer with 20+ years' experience designing, building, and modernizing enterprise web applications, APIs, data platforms, integrations, e-commerce systems, and more; 12+ years in Lead / Principal-level technical leadership roles, mentoring engineers and influencing architecture across teams.

Primary technologies include Node.js, TypeScript, Kubernetes, C#, .NET, JavaScript, AWS, SQL, and PostgreSQL, with recent focus on AI development workflows using Claude, Claude Code, GitHub Copilot, and LLM-assisted coding agents to improve development speed, test quality, documentation, and more while preserving human technical judgment, maintainability, and security.

WORK EXPERIENCE

Feb 2023 – Present

CHG Healthcare

Midvale, UT (Remote)

Principal Software Engineer / Staff Software Engineer

- Architected enterprise sales data platform replacing third-party systems, saving ~\$6M annually while increasing scalability, accuracy, performance, and long-term control of mission-critical sales insights
- Optimized PostgreSQL databases and ETL pipelines, cutting storage by ~75%, reducing processing by 7+ hours, and accelerating queries 1000x
- Expanded technical leadership from a single team to multiple concurrent engineering teams spanning Salesforce, application development, and enterprise integrations
- Directed architectural decisions impacting revenue-critical sales workflows; deployed centralized OneTrust integration for unified opt-in / opt-out management, also ensuring compliance with evolving communication regulations and reducing organizational risk
- Built a modular Salesforce-texting service integration improving sales efficiency, strengthening BI pipelines, and simplifying vendor transitions
- Engineered reusable, abstract microservice components in Node.js and TypeScript, reducing development timelines from weeks to days, improving speed and consistency
- Advanced AI-native development workflows using Claude, Claude Code, GitHub Copilot, and other LLM-assisted coding agents for refactoring, test generation, documentation, code review support, debugging, and exploratory implementation while safeguarding quality
- Promoted responsible AI-assisted development practices emphasizing validation, human review, static analysis, security awareness, maintainability, traceability, and careful use of AI-generated output
- Established enterprise testing methodologies, producing resilient, refactor-friendly unit and integration test suites that increased confidence in high-stakes deployments to AWS cloud
- Conducted technical evaluations of third-party tools, advising Director-level leadership on viability and alignment with business priorities
- Helped codify Salesforce and application development standards, reusable implementation patterns, code review practices, AI-assisted development guardrails, and durable technical documentation across teams

- Mentored software engineers in architecture, performance optimization, testing, debugging, AI-assisted development practices, technical judgment, and career development
- Participated in the interview process for engineers across multiple teams
- Recognized for excellence and results, including departmental “Circle of Excellence” award for the sales data platform

Jan 2013 – Present **JBrain Software** PA / CT (Remote)
Owner - E-commerce / Web Application / WordPress Software Engineer

- Helped a client implement AI-agent teams for data analysis, reporting, and other business tasks, allowing for more frequent reporting and better-informed strategic decisions
- Built an AI-driven reporting dashboard for an online publisher that automatically pulls, analyzes, and reports on data from the client’s SEO tool (Ahrefs), Google Analytics (GA4), and Google Search Console accounts
- Helped a client build out an AI operating system to serve as its “single source of truth” for multiple AI tools including Claude Cowork, Codex, and a local LLM
- Led an AI-assisted build of a custom editorial content calendar / planner app for a digital publisher
- Built a content audit / library system that runs automated AI-driven content audits across a client’s portfolio of websites then presents analysis and action plans, allowing for previous yearly audits to be completed monthly
- Worked with Codex and other AI-native tools to build a custom planning, organization, and project tracking app for a client that saves the owner hours every week
- Optimized a client’s database export process; decreased data export times from hours to under 10 seconds
- Built an updated PayPal integration for PCI compliant tokenization in credit card communication
- Created a custom data export tool for an online publisher; decreased SEO / content audit time by ~70%
- Modernized a client’s collection of legacy online tools and calculators
- Developed Walmart and Jet.com inventory upload utilities consuming restful APIs for an e-commerce client
- Designed an integration between OpenCart and a client’s order management software
- Developed other e-commerce software integrations for shopping carts and payment processors
- Designed custom reporting solutions for clients’ inventory and order management software
- Developed automation and integration utilities using Node.js / TypeScript, REST APIs, SQL, validation patterns, and AI-assisted development workflows
- Created custom WordPress plugins and publisher workflow tools to reduce reliance on third-party platforms and improve maintainability, reporting, and operational control

Oct 2020 – Feb 2023 **Etail Solutions, LLC** Arden Hills, MN (Remote)
Principal Software Engineer

- Led a team of e-commerce software developers, mentoring junior and mid-level engineers
- Influenced leadership to adopt Git and led the transition process from Team Foundation Version Control
- Planned and led the company’s modernization / conversion to .NET Core
- Updated third party integrations (Amazon, Walmart, Shopify)
- Implemented a new code review process for the software engineering team
- Automated the build process for greater efficiency over the company’s previous manual builds
- Advised and consulted with the CTO on best practices in the team’s development process
- Introduced metric tracking and reporting in relation to new quality control processes I implemented
- Evaluated Azure cloud solutions for business cases and recommendations to leadership
- Implemented and led stand-ups for the engineering team as part of a new agile process
- Served as liaison with external developers working for a client of the company

Jan 2013 – Oct 2020 **Allied Universal Security Services** Conshohocken, PA (Remote)

Lead Software Engineer (Previously Senior Software Engineer)

- Architected a web application / private API, optimizing validation & reporting of internal processes
- Built a web application to automate benefits recording for over 150,000 employees
- Led and mentored engineers in a fully remote environment; interviewed and trained new software engineers
- Influenced leadership to embrace more modern and efficient technologies (including .NET Core and Blazor)
- Initiated the company's modernization / conversion from MVC 5 to .NET Core
- Worked with internal stakeholders to develop technical design specs from end-user business requirements
- Conducted research into Azure cloud services for modernization recommendations
- Transitioned the team from having no formal testing methodology to implementing automated unit tests
- Took the team from having no formal development process to agile methodology
- Developed a calculation engine for determining annual bonuses for over 150,000 employees
- Made several enhancements to the company's commission tracking system

Jul 2005 – Dec 2012 **Monsoon Commerce / Stone Edge Technologies** Collegeville, PA
Software Developer / QA Manager

- Developed a real-time inventory synchronization solution with Yahoo stores
- Advocated for the creation of a Quality Assurance Manager position and served as the first QA Manager
- Managed the QA process, including during the company's transition to PCI compliance
- Served as liaison between the company's local and overseas contract development teams
- Developed and delivered presentations for company conferences
- Designed customizations for customers of Stone Edge Order Manager

SKILLS

Node.js, TypeScript, JavaScript, Python, Kubernetes, Docker, AWS, Azure, Cloud-Native Architecture, Distributed Systems, Backend Services, Microservices, REST APIs, API Design, Event-Driven Architecture, PostgreSQL, Microsoft SQL Server, SQL, MySQL, Redis, NoSQL, ETL, Data Pipelines, Data Modeling, Query Optimization, C#, Microsoft .NET, ASP.NET MVC, .NET Core, AI-Native Development, Claude, Claude Code, GitHub Copilot, LLM-Assisted Coding Agents, AI-Assisted Refactoring, AI-Assisted Test Generation, AI-Assisted Documentation, Responsible AI Adoption, Human-in-the-Loop Review, Entity Framework, Salesforce, OneTrust, Git, GitFlow, Team Foundation Server, CI/CD, Build Automation, Automated Testing, Unit Testing, Integration Testing, Test Strategy, Quality Assurance, QA, Observability, Logging, Monitoring, Performance Optimization, Scalability, Reliability, Security, Data Privacy, PCI Compliance, OAuth, JSON, XML, HTML, CSS, PHP, Java, VBA, Visual Basic, SSIS, Jira, Agile, Scrum, SDLC, Software Architecture, System Design, Technical Leadership, Mentorship, Remote Leadership, Technical Documentation, Architecture Decision Records, Code Review, Legacy Modernization, Developer Productivity, Static Analysis, Validation Practices, Engineering Standards, Technical Content, Blogging, Full-Stack Development, Backend Development, Object-Oriented Programming, OOP, Open Source Frameworks

EDUCATION

School: Indiana University of Pennsylvania

Degree: Bachelor of Science

Major: Computer Science

Specialty Track: Programming Languages and Systems

Minor: Mathematics