

# Josh Bellamy

[josh@joshbellamy.dev](mailto:josh@joshbellamy.dev) | (218) 341-0126 | [joshbellamy.dev](http://joshbellamy.dev) | Duluth, MN | [LinkedIn](#)

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Senior Software Engineer with 17 years of experience building production enterprise systems. At ALLETE I delivered \$3M+ in software value across 6 solo builds, replacing an estimated \$275K-\$610K/year in vendor licensing. Most recently built ALLETE GPT, a full enterprise AI platform, using Claude Code and agentic workflows. I treat AI coding as constant iteration and refinement, never set-and-forget. I thrive with full ownership, minimal process, and hard problems.

## TECHNICAL SKILLS

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- **AI Workflow:** Claude Code (power user), Anthropic Claude API, Azure OpenAI, agentic workflows, prompt engineering, RAG, Cosmos DB
- **Languages:** C#, JavaScript, TypeScript, SQL, HTML5, CSS3, Node.js
- **Frameworks:** ASP.NET, ASP.NET MVC, Express.js, Next.js, React, Tailwind CSS, Bootstrap
- **Cloud & Data:** Azure (OpenAI, Cosmos DB, AD/Entra ID, DevOps), Supabase, SQL Server, Oracle, PostgreSQL
- **Compliance & Security:** SOC2-adjacent regulated environments, AES-256 encryption, Azure AD/Entra ID, Active Directory security descriptors, SAIDI/SAIFI regulatory reporting
- **Tools:** Visual Studio, Git, Mapbox, Capacitor, Stripe, GitHub Actions, Azure DevOps
- **Specializations:** Enterprise AI integration, Active Directory, compliance environments, web services, microservices architecture

## EXPERIENCE

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**Senior Software Engineer** | ALLETE, Inc. — Duluth, MN | *March 2014 – Present*

### Enterprise AI Platform

- Built ALLETE GPT solo using Claude Code and agentic workflows: secure multi-model enterprise chat (Azure OpenAI + Anthropic Claude), Azure AD auth, AES-256 encryption, document processing. Avoided \$80K-\$200K/year in ChatGPT Enterprise licensing costs.
- 334 active users, 12,500 requests/month as of April 2026. Sustained at \$2.01-\$2.59 per user through peak growth. Total requests grew 186% from launch to present.
- Multi-model platform with user-selectable AI providers.

### Utility Operations Systems

- Storm Center: real-time outage management for 154,000+ customers across Minnesota Power and Superior Water, Light & Power. Vendor equivalent: \$50K-\$100K/year.
- TroubleTracker: service call management platform replacing discontinued vendor software. Eliminated \$60K-\$120K/year in ServiceNow-equivalent licensing.
- Reliability Event Manager: automated SAIDI/SAIFI/CAIDI regulatory compliance reporting. Vendor alternatives run \$40K-\$80K/year.
- Call Vault: searchable archive of 500K+ customer interactions for compliance and training. Built using ALLETE GPT, demonstrating the platform's practical value for internal development.
- Project Express: self-service Active Directory group management for 2,000+ employees across ALLETE subsidiaries.
- Two customer-facing mobile apps (iOS + Android): \$80K annual cost reduction.

**Programmer/Analyst & Systems Administrator** | The College of St. Scholastica — Duluth, MN | *2011 – 2014*

- Built predictive student risk analytics platform: \$30K savings through early intervention.
- Custom CRM: \$10K/year savings vs. third-party alternatives.
- Led OneStop portal development integrating Financial Aid, Student Accounts, and Registrar.
- Mastered ColdFusion and became lead developer within 4 months.

**Senior Web Builder & Consultant** | 50 Below — Duluth, MN | *2008 – 2011*

- Managed multi-million-dollar dealership relationships in the power sports industry. Voted Product Services Department MVP three times.

## PERSONAL PROJECTS

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### GoodTrips — goodtrips.app

- Solo full-stack travel tracking app built with Claude Code: interactive Mapbox clustering, Google Timeline import, shareable cards, cross-platform via Capacitor. Live on web and mobile.
- Stack: Next.js, Supabase, TypeScript, Tailwind CSS, Mapbox, Capacitor

### AmperlyEV — amperlyev.com

- EV ownership platform built with Claude Code: AI assistant (Anthropic Claude) for vehicle-specific guidance, interactive charging maps, trip planning, Stripe billing.
- Stack: Next.js, Anthropic Claude API, Supabase, Mapbox, Stripe, TypeScript

## EDUCATION

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**B.S. Computer Information Systems** — The College of St. Scholastica, Duluth, MN | 2003-2007

## KEY ACHIEVEMENTS

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- \$3M+ in enterprise software value delivered across 6 solo builds, zero production failures
- \$275K-\$610K estimated annual vendor cost savings for a single organization
- 334 active users, 12,500 requests/month, \$2.01-\$2.59 sustained cost per user on ALLETE GPT
- 17 years building in regulated, compliance-driven environments (utility, higher ed)
- Shipped 2 personal SaaS products solo using Claude Code agentic workflows