Emma Adams
Lead Senior Software Engineer

emmajsadams@gmail.com   +1-206-637-1482   github.com/emmajsadams   linkedin.com/in/emmajsadams   twitter.com/emmajsadams

EXPERIENCE

Lead Senior Software Engineer
Feb. 2025 - Present
Supio
Remote

- Lead a team of 5 engineers through agile sprints, technical planning, and cross-functional collaboration with product, sales, and marketing to deliver AI-driven legal tools.
- Architected an LLM workflow orchestration system in TypeScript integrated with Claude and OpenAI models for rapid deployment of legal document blueprints using context management and prompt engineering best practices.
- Built and deployed legal drafting agents in Python (smolagents, LangChain) for automated document generation and review.
- Designed a cursor-style drafting interface integrating AI RAG chat for real-time verification and natural-language editing.
- Delivered a full drafting suite—including expert disclosure, demand letter, and medical summary generators—adopted by 20+ law firms within the first quarter, improving drafting speed and consistency across client workflows.
- Led the integration of coding agents like Codex and Claude Code, establishing best practices for secure, efficient, and maintainable AI-assisted development workflows.

Senior Software Engineer
Jan. 2024 - Nov. 2024
Hewlett Packard Enterprise
Remote

- Engineered a full-stack RAG evaluation and deployment service from scratch, leveraging Go microservices, Python ML pipelines, React frontend, and distributed systems (Kubernetes, RabbitMQ, Postgres, Milvus).
- Led frontend development for RAG evaluation platform, implementing real-time WebSocket streaming to visualize DeepEval metrics (groundedness, context relevancy, answer relevancy) during model validation.
- Established scalable React architecture and engineering standards, integrating modern tooling (Vite, Storybook, Jest, Playwright) and type-safe API patterns (Orval, Zod, MSW) for maintainable component development.
- Delivered performance-critical features for JupyterLab extension managing large-scale LLM training pipelines, optimizing data-intensive workflows.
- Drove cross-functional collaboration with product and design teams, translating business requirements into technical solutions through design documentation and stakeholder presentations.

Principal Software Engineer
Feb. 2021 - Apr. 2023
Devoted Health
Remote

- Developed full-stack solutions using Go for backend services and TypeScript React for frontend applications.
- Collaborated in product design meetings to define requirements and draft user stories for new product initiatives.
- Drove development of a HIPAA-compliant health insurance annotation platform from early stages through production release.
- Optimized and scaled ETL pipelines to support rapid user growth and increasing data volumes.
- Led the redesign of the risk adjustment engine, the company's primary revenue stream for CMS claim reimbursement.

Freelance Software Engineer
Aug. 2020 - Jan. 2021
Self-Employed
Remote

- Contract work building APIs and React web applications for small to mid-sized companies.
- Computer Science tutoring and classes for teaching university students web development.

Lead Senior Software Engineer
Jul. 2018 - Jul. 2020
Humble Bundle
Remote

- Promoted from Senior Software Engineer to Lead Senior Software Engineer II of the Platform team.
- Developed features for a Python and React e-commerce website that averages 26 million views per month.
- Executed a project to migrate all sessions to the newly required TOTP two-factor system with OAuth Google login.
- Led the internationalization project for an 8-year-old application and educated other developers on how to use these tools.
- Managed 5 direct reports including regular one-on-one meetings, code reviews, and pair programming.

Lead Full Stack Software Engineer
Jan. 2018 - Aug. 2018
Committee for Children
Seattle, WA

- Led the replacement of a legacy, monolithic DNN platform to a high performance platform utilizing using React and .NET Core.
- Migrated user authentication to the IdentityServer4 OpenID identity provider.
- Incrementally transformed a series of untested stored procedures into a modern C# WebAPI.
- Developed a TypeScript React frontend powered by an ASP.NET Core C# backend to track the delivery of coursework to students.

Full Stack Software Engineer
Jul. 2013 - Dec. 2017
Trov
Remote

- Remote software development team where developers wrote unit and integration tests.
- Constructed an on-demand insurance platform for consumer items with ASP.NET C# and SQL.
- Developed an app for managing claims and insuring items with a Typescript React frontend and ASP.NET C# backend.
- Built a business intelligence system for sending information to Trov's partners using Python.

Application Researcher
University of Washington
Seattle, WA

Jan. 2013 - Nov. 2013

- Lead developer for the TypeScript library that abstracted cloud storage services like Dropbox, Google Drive, and AWS.
- Contributed to a research paper on abstracting cloud storage.

Software Engineer Intern
E*Trade
Seattle, WA

Sept. 2012 - May 2013

- Worked on an international team to develop high performance stock trading apps implemented in Java
- Developed high-frequency trading features that supported options (contracts to buy a stock at a given price in a span of time).

Web Instructor and Engineer
University of Washington
Seattle, WA

Jan. 2012 - Jun. 2013

- Taught modern web development standards to University of Washington staff and students.
- Developed applications to manage courses and support tickets using Python and Django.

Software Engineer Intern
Rakuten
Seattle, WA

Apr. 2012 - Nov. 2012

- Scraped and normalized product information using Python.
- Worked with Overstock, Amazon, and Walmart APIs to gather product information and update listings.

Software Engineer Intern
SmiteWorks
Bellevue, WA

Apr. 2011 - Nov. 2011

- Worked on the FantasyGrounds chat feature using C.
- Led the development of a C app to import character data from competitors apps.
- Worked with the Steam gaming app store to publish updates and respond to customer feedback.

EDUCATION

Bachelor of Science in Informatics
University of Washington Seattle

GPA: 3.87

2011 - 2014

- Informatics as my major taught an interdisciplinary approach to technology covering topics a range of topics including computer science, business, design, user experience, and project management. It encouraged a broad foundation, but deep specialization within a given field. Within this major, I specialized in computer science.

PROJECTS

Wright – Agentic Context Engineering CLI
- A TypeScript CLI implementing Agentic Context Engineering (ACE) with ReAct (Reasoning + Acting) methodology for self-improving AI context systems.
- Features a three-agent pipeline: ReActGeneratorAgent performs tool-enabled reasoning, ReflectorAgent extracts insights, and CuratorAgent updates evolving knowledge bases.
- Prevents context collapse through structured bullet accumulation and always-on ReAct reasoning, creating versioned knowledge that improves over time.

TypeScript Node.js OpenAI API CLI (Commander.js / Inquirer) Zod esbuild / tsup / TSC

Minerva
- Personal productivity application blending task management with introspective design and a serene aquatic aesthetic.
- Features real-time task synchronization via Convex, rich markdown notes, and AI-powered productivity tools in a thoughtfully crafted interface.
- Emphasizes personal growth through glass morphism effects, fluid animations, and thoughtful typography that transforms productivity into a meditative experience.

TypeScript React Next.JS TailwindCSS Convex Bun Vercel

TypeScript Database
- A transactional in-memory database for TypeScript featuring a full REPL interface for interactive key-value operations.
- Supports nested transactions with BEGIN/ROLLBACK/COMMIT, enabling complex data manipulation with type safety and clean architectural separation.
- Built with extensibility in mind - modular command parsing and pluggable storage backends for different key-value type systems.

TypeScript Node.JS eslint prettier mocha sinon

dstruct
- A comprehensive data structures library for TypeScript, created as a learning exercise and exploration of algorithmic design.
- Implements 15+ structures including Red-Black trees, hash/tree maps, bimaps, multisets, and more - inspired by Java Collections, C# Collections, and Google Guava.
- Features type-safe implementations with ES6 Map support, demonstrating foundational CS concepts in modern TypeScript.

TypeScript Grunt Docker Bower Karma

TECHNICAL SKILLS

Programming Languages

Python TypeScript C# Go SQL Bash

Data & AI

OpenAI API Claude API smolagents LangChain LangSmith RAG
pandas NumPy jupyter PyTorch Elasticsearch

Databases

PostgreSQL MySQL MSSQL Convex

Soft Skills

Effective and concise communication Constructive feedback
Continuous learning and growth Problem solving with minimal guidance

Web Development

HTML CSS React Next.js TailwindCSS TanStack shadcn PostCSS
ASP.NET MVC Flask FastAPI Bun Node.js

Cloud & DevOps

AWS Google Cloud Microsoft Azure Cloudflare DigitalOcean Vercel
Docker Kubernetes cmake

Developer Experience & Tooling

Claude Code Cursor VSCode Cursor Git Linux npm pnpm vite
webpack ESLint Prettier