Keen Francis

AI Full Stack Engineer

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PERSONAL SUMMARY

Senior Full-Stack & AI Engineer with 10+ years of experience designing and delivering scalable, high-performance web applications and AI-powered features. Extensive hands-on work across backend, frontend, data, and cloud, with a strong focus on clean architecture, reliability, and maintainability. Experienced in translating complex business requirements into technical solutions, collaborating closely with cross-functional teams in Agile environments, and consistently improving systems through performance optimization, automation, and modern AI integration.

EXPERIENCE

Preamble, *AI Full Stack Engineer*   05/2023 – 06/2025 | Remote
- Developed end to end AI powered applications with TypeScript/JavaScript (React, Next.js, Node.js) and Python (Flask, FastAPI), focusing on modular, maintainable architectures.
- Implemented API layers and data pipelines to support AI workflows, ensuring reliability, observability, and security.
- Optimized backend systems on AWS (EC2, S3, Lambda, SageMaker) by implementing caching strategies and compute resource tuning, enhancing performance and reducing load times by 30%.
- Embedded OpenAI GPT models into core product features, delivering conversational AI, semantic search, and sentiment analysis capabilities.
- Worked with DevOps engineers to standardize Docker images and Kubernetes configurations, enabling reproducible, horizontally scalable deployments.
- Implemented A/B testing frameworks and monitored model performance with metrics and logs, iterating on prompt engineering and fine-tuning strategies to improve model outcomes by 20%.
- Provided technical leadership through mentoring, pair programming, and structured code reviews, ensuring best practices and coding standards.

Helcim, *Full Stack Developer*   02/2021 – 04/2023 | Calgary
- Developed frontend web app with a modular, component based architecture using React, Vue, AngularJS with TypeScript.
- Implemented async workflows and data handling in React and Vue, enhancing the UI with Tailwind CSS and GSAP.
- Designed and developed GraphQL APIs to enable reliable, schema-driven data exchange between distributed systems using JSON.
- Improved app performance and UX by delivering responsive UIs and orchestrating deployments using AWS CDK.
- Converted complex business requirements into clear technical specifications and interactive UI designs using React, Vue and Node.js.
- Performed systematic testing and debugging to find and fix defects, while providing technical guidance and leadership to the team.
- Used Jenkins to set up and manage CI pipelines, and tracked issues, defects, and progress using JIRA.
- Authored and configured Dockerfiles to containerize microservices and used Kubernetes for CD.

Cadeon, *Backend Developer*   06/2018 – 12/2020 | Calgary
- Developed a real-time chat app using Node.js and Socket.io for instant, bidirectional communication.
- Implemented interactive web pages and features using JavaScript and jQuery to enhance user engagement and client-side responsiveness.
- Built responsive, cross browser frontend interfaces using HTML, CSS, SASS, JSP, and JavaScript.
- Designed interactive prototypes interactive prototypes, wireframes, and visual standards using W3.
- Collaborated with business stakeholders to gather and refine requirements, ensuring the application aligned with evolving business needs.
- Participated in code reviews, debugging, and performance tuning, contributing to higher code quality and maintainable frontend architecture.
- Supported application enhancements and feature updates based on user feedback and business priorities.

Arcurve, *Frontend Developer*   07/2015 – 05/2018 | Calgary
- Developed SPA with React Router to enable seamless client-side navigation and improved user experience.
- Implemented modular, component based architectures using React as the view layer.
- Designed and maintained reusable UI components, managing application state with Redux and the Context API.
- Created a formatter wrapper API with Moment.js to standardize date, time, and number formatting across the application.
- Used Webpack for module bundling and Babel for transpiling modern JavaScript and React code for browser compatibility.
- Built the frontend and user interfaces for the AR/VR Works application using ES6, React, and Redux.
- Collaborated with designers and backend engineers to integrate UI components with APIs, ensuring smooth data flow and responsive interfaces.
- Followed frontend best practices including clean code, performance optimization, and accessibility standards.

EDUCATION

Bachelor of Science, *University of Calgary*   04/2015 | Calgary, AB
Computer Science

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Java

Frontend: React, Next.js, Vue, Angular, Tailwind, MUI, SCSS

Backend: Node.js, Express, NestJS, Django, Flask, REST, GraphQL

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Firebase, Supabase

Cloud & DevOps: AWS, GCP, Azure, Docker, GitHub Actions, Jenkins, Vercel, CI/CD

AI/ML: OpenAI, Claude, Gemini, DeepSeek, LangChain/Graph, Sora, Midjourney, Stable Diffusion, Flux, Veo, LangSmith, STT/TTS

Tools: GitHub, GitLab, Bitbucket, Jira, Trello, Asana, ClickUp, Postman

Testing: Jest, JUnit, Karma, TestNG