

Jacob Cameron

Lead frontend engineer building interfaces for robots.

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I'm Jacob, a lead frontend engineer based in Medford, MA. I currently lead frontend development at Pickle Robot Company in Cambridge, where I rearchitected the primary robot control interface and build real-time dashboards that bridge hardware and the people who operate it. Before that I shipped frontends at Amazon, Nintendo, Lucid, Vendrive, and Oops Technologies — and spent a year teaching computer science, cybersecurity, and game development.

BYU	Bachelor of Science in Computer Science • 3.68 GPA
Music minor	August 2014 — April 2018

Pickle Robot Company	Cambridge, MA + Charlestown, MA
Lead Frontend Engineer	January 2024 — Present
• Rearchitected and rewrote the primary robot control interface from scratch using Next.js, significantly reducing latency and delivering a highly responsive, intuitive user experience • Accelerated feature delivery by integrating AI-driven development workflows, leveraging Cursor and multi-agent orchestration (Claude & Gemini) to optimize code generation • Designed and built a real-time performance monitoring dashboard showcased live at Modex 2024, ProMat 2025, and Modex 2026 • Collaborated closely with product designers and backend robotics teams to bridge hardware capabilities with seamless, accessible operator interfaces	

Davis School District	Farmington, UT + Syracuse, UT
Computer Science Teacher	August 2022 — November 2023
• Designed and delivered comprehensive curricula in computer science, cybersecurity, and game development, teaching and mentoring hundreds of students across all skill levels	

Oops Technologies	Remote
Senior Frontend Engineer	May 2022 — October 2022
• Owned and architected the core web application from the ground up using Next.js, ensuring high performance, responsive design, and clean component separation • Engineered and maintained business-critical internal tools and utility applications to support administrative and operational workflows	

Vendrive	Boston, MA
Lead Frontend Engineer	April 2021 — April 2022
• Led frontend development as the sole engineer, owning the architecture, deployment, and maintenance of the core web platform using Next.js • Designed and built a proprietary React component library to ensure visual consistency, performance, and UI scalability across the application	

Lucid	Remote
Senior Frontend Engineer	June 2020 — February 2021
• Developed and optimized highly performant, accessible marketing and marketing-adjacent web properties using React and Gatsby	

Nintendo of America	Redmond, WA
Software Engineer	January 2020 — June 2020
• Engineered and optimized AWS Lambda functions and Athena scripts to process data within payment accounting pipelines • Created reusable React components for internal administration tools, standardizing UI patterns and improving ease of use	

- **Managed and maintained** frontends and backend services for the Amazon Translation Management System (ATMS), supporting 100+ repositories and dozens of active CI/CD pipelines
- **Developed, tested, and deployed** highly scalable frontend features using React, while establishing comprehensive system monitoring via metrics and automated alarms
- **Built and deployed** key user-facing features for the Amazon Now and Amazon Pantry programs

Frontend & UI

JavaScript, TypeScript, React, Next.js, Solid.js, TanStack Start, Tailwind CSS, CSS-in-JS, HTML5, CSS3, Figma, Accessibility (a11y), i18n, Lottie, Three.js

Backend & APIs

Node.js, Express, Docker, Microservices, REST, GraphQL, Server-Sent Events (SSE)

AI & ML

Multi-agent orchestration, Prompt engineering, Neural networks, KNN, Clustering

DevOps & Cloud

AWS, GCP, Azure, GitHub Actions, CircleCI, Vercel, CI/CD pipelines

Databases & CMS

Prisma, SQL, NoSQL, Contentful CMS

Security & Auth

OAuth2, OIDC, SSO, JWT, 2FA, TLS

Cryptography

AES, RSA, PKI

Testing & Tools

Cypress, React Testing Library, Jest, Git, ESLint, Cursor, Chromium

Design & Multimedia

Photoshop, Illustrator, Premiere Pro, After Effects, Audition, Blender