Mason Pierce

Senior Software Engineer

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SUMMARY

Software engineer with expertise in full stack development, specializing in browser-based or user-facing technologies. Adept at leading teams and project management, with strong interpersonal and communication skills that foster a positive team culture. Demonstrates product-oriented thinking and versatility in handling a wide range of tasks, from UI to edge hardware. Committed to delivering user-centric solutions in a dynamic environment.

PROFESSIONAL EXPERIENCE

CAMIO   San Mateo, CA
Senior Software Engineer   **February 2023 - October 2023**

- Integrated cutting-edge AI/CV research into product, enabling end users to create custom AI models in < 72 hours using in-browser object segmentation.
- Modernized core application, increasing developer onboarding speed by ~82% and overall development speed by 36x.
- Enhanced search box autocomplete, enabling search across hundreds more cameras and zones while reducing search time per keystroke from 10ms to <0.05ms.
- Delivered bug fixes and maintenance on tight deadlines to delight key referenceable clients.

Software Engineer   **August 2021 - February 2023**

- Reduced live streaming latency from 8s to 0.5s and removed middleman server in 90% of cases using WebRTC.
- Developed interactive video player with WASM for faster feature iteration and improved user experience.
- Implemented Auth0 authentication, enabling support for SAML, Active Directory, SSO, and RBAC.
- Developed k8s containers for edge devices on Flex for initialization, networking, and heartbeat.
- Conducted interviews and created interview questions for various positions.
- Generated 90+ leads from pitching our product at a 3-day tradeshow.
- Implemented various productivity and documentation practices to ensure cross-team communication and clarity.

Frontend Engineer Intern   **July 2020 - August 2021**

- Developed Camio website using Vue and Nuxt.js, reducing dev cycles and automating CI/CD with Github Actions.

TECH4GOOD LAB   Santa Cruz
Fellow and Undergraduate Research Assistant   **March 2018 - July 2020**

- Defined the main user interface, ran usability tests, and led a team of 6 through building causeway.soe.ucsc.edu.
- Led a team of 10 to design, build and release tech4good.soe.ucsc.edu.

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ   Santa Cruz, CA
Bachelor of Science, Major in Computer Science; Minor in Technology Information Management   **Graduated June 2021**
GPA 3.73/4.0
Achievements: Cum Laude, 2x Track and Field All-Academic, 1x NCAA Most Valuable Field Athlete

SKILLS

- **Programming Languages:** Typescript, Javascript, Node.js, Python, Java, Bash
- **Frameworks and Technologies:** Vue 2/3, Nuxt.js/Nuxt3, FastAPI, WebRTC, Websockets, Git, Authentication (Auth0), WebAssembly, Github Actions, ONNX models, React
- **Cloud and Containerization:** Google Cloud Platform, Docker, Docker-Compose, Kubernetes, Distributed Systems
- **Other:** Maintaining and migrating legacy systems, architecture design, design (Figma, UX), project/product management, computer vision, pitching and demoing product and/or features