Allen Sien

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Github: github.com/Sienallen | Portfolio: sienallen.github.io/

Education

University of California, Irvine - Henry Samueli School of Engineering   **Irvine, CA**
B.S. in Computer Engineering
- **Coursework:** Data Structures and Algorithms, Computer Architecture, Logic Design, Embedded Systems, Programming, Operating Systems, Parallel Programming, Autonomous Systems

Meta Front-End Developer Certificate – Coursera
- Covered: HTML/CSS, JavaScript, React, UX/UI, Git, Web Development

Skills

Languages: Python, Typescript, HTML, CSS, Javascript, C/C++, Java, SQL
Frameworks: React, Django
Tools: Github, Retool, Figma

Work Experience

Physical Intelligence, AI start-up   **San Francisco, CA**
Operator Deployment Lead   *Mar. 2025 - Present*
- Managed a team of 20 across multiple offsite locations, keeping tasks on schedule through clear communication, delegation, and structured planning.
- Managed all logistical aspects of offsite operations, from site booking to team scheduling and resource allocation
- Analyzed and annotated performance data to identify improvement areas, boosting operator efficiency.
- Reduced robot malfunction incidents through effective troubleshooting, reset protocols and documenting issues to reduce system downtimes

Robot Operator   *May 2024 - Mar. 2025*
- Collected and annotated 70–100 hours of data daily with a team of operators
- Developed and trained robots to automate daily tasks, from folding clothes to putting dishes in a dishwasher
- Collaborated with researchers and engineering team to refine robot behaviors, achieved 60%-80% success rate in autonomous task execution and significantly improved operational efficiency

Projects

Riz's Craft, eCommerce Project   *May 2024 - August 2025*
- Built a full-stack eCommerce platform with React (frontend) and Django (backend).
- Implemented core features including product catalog, user authentication, and a fully responsive UI.
- Enhanced UX with reusable React components and optimized data display using React libraries.
- Designed and applied interactive, responsive styles for seamless cross-device usability.
- Deployed the application across multiple hosting platforms.

Chang's Mongolian Restaurant Website   Aug. 2024 - Nov. 2024
- Developed a responsive website using React, showcasing a local restaurant's menu, pricing, and location.
- Enhanced user experience with intuitive navigation and engaging visuals, boosting online engagement.
- Deployed and maintained the site using Netlify for fast, reliable hosting

Autonomous Chess Board, Senior Design Project   *Sept. 2022 - Mar. 2023*
- Collaborated with a team to design and develop a chess-playing robot capable of autonomous gameplay
- Programmed control systems for motors and an electromagnet, enabling precise piece movement either via app-based commands or an embedded algorithm
- Enabled gameplay between a physical board player and remote app player through websockets on local wifi.
- Delivered weekly progress reports and presentations to our project mentor, demonstrating ongoing development and addressing feedback