






Shawn Liu

FULLSTACK SOFTWARE DEVELOPER · PALO ALTO, CA

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ABOUT ME

Highly adaptable fullstack developer with a proven track record in delivering high-quality and maintainable enterprise software to customers. Capable of working in cross-functional teams to achieve project goals in a timely manner. Currently seeking opportunities to apply my programming and collaboration skills to deliver industry-leading software with a growth-oriented team.

EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science and Physics

Pittsburgh, PA

2017 - 2021

PROFESSIONAL EXPERIENCE

• Omnicell, Inc.

Palo Alto, CA

Engineer I, Software

December 2021 - Present

- **Web Development:** Implemented an interactive web app and robust backend service supporting large-scale routing of pharmaceutical drugs in health networks constituting up to 50 national hospitals.
- **API Development:** Designed, implemented, and documented RESTful APIs using ASP.NET, facilitating seamless communication between services in a high-traffic web application managing millions of medications.
- **Cloud Platform:** Collaborated with hardware and UI/UX teams to create user-friendly guided interfaces on cloud platform using Angular, reducing prescription process time by 25% and nursing errors by 75%.
- **Internal Support:** Built internal tool with React to automatically generate and scan item barcodes for QA testing, expediting system hardening and reducing regression test work every quarter.

• Omnicell, Inc.

Cranberry Township, PA

Software Test Engineer Intern

May 2021 - August 2021

- **Fullstack Development:** Designed and implemented a standalone desktop app with Electron and C# that enables developers and QA engineers to test hardware communication while working remotely.
- **Test Automation:** Utilized Ranorex to write automated UI tests that verify the simulator's integration with existing inventory management software, ensuring alignment with test-driven development practices.
- **Web App Testing:** Wrote Cypress tests for web application's integration with hospital servers, enabling timely bug fixes and bringing automated test code coverage up to 80%.

• Hitachi Energy

San Jose, CA

Software Process Management Intern

May 2020 - August 2020

- **Workflow Management:** Utilized a value-based model to identify resource bottlenecks in software development process in preparation for company merge with Hitachi, and proposed optimizations to product directors.
- **Agile Methodologies:** Created a mapping and documented workflow for the transition to a customer-oriented Agile development process by the Powergrids R&D team.
- **Rule-Based Systems:** Researched the usage of rule-based software systems in automating decision-making and business logic, implemented by the R&D team since Fall 2020.

PROJECTS

• Brain Blitz

<https://brain-blitz-shawnliu.netlify.app/>

- **Game Development:** Engineered a web-based trivia game from inception to deployment using React and Netlify, which tests users on questions fetched from the Open Trivia Database API.
- **Multiplayer Integration:** Implemented WebSockets to establish seamless connections for real-time multiplayer gameplay, fostering interactive user experiences and enhancing the app's social connectivity.

TECHNICAL SKILLS

- **Programming Languages:** HTML, CSS, JavaScript, TypeScript, Python, C#, SQL
- **Frameworks and Libraries:** React, Angular, ASP.NET, REST, SQL Server, Socket.io, Cypress, Jasmine
- **Tools:** Git, Bitbucket, Netlify, Swagger, NPM, Jira