Shawn Liu

FULLSTACK SOFTWARE DEVELOPER

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About me

Highly adaptable fullstack developer specializing in frontend web development with a proven track record in delivering high-quality and maintainable 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 — **Pittsburgh, PA**
Bachelor of Science in Computer Science and Physics — 2017 - 2021

Professional Experience

- **Omnicell, Inc.** — **Santa Clara, 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 200 national hospitals.
  - **Inventory Management**: Developed a medication management software that automates a vertical storage solution maximizing inventory capacity; software generated an additional $44.2M of revenue in 2023.
  - **UI/UX Design**: Collaborated with hardware and UI/UX teams to create user-friendly guided interfaces on cloud platform, reducing prescription process time by 25% and nursing errors by 75%.
  - **Internal Support**: Built internal tool using 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 simulation software 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#, MySQL
- **Frameworks and Libraries**: React, Angular, REST, SQL Server, Socket.io, Cypress, Jasmine
- **Tools**: Git, Bitbucket, Netlify, Render, Swagger, Linux, NPM, Jira