






# 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 Physics and Computer Science

2017 - 2021

## PROFESSIONAL EXPERIENCE

- Omnicell, Inc.** **Santa Clara, CA**  
*Junior Fullstack Developer* *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 for medication dispensing tools, 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 Application:** 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 ABB Powergrids** **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:** C#, Python, Javascript, Typescript, HTML, CSS, MySQL
- Frameworks and Libraries:** React, Angular, Socket.io, REST, SQL Server, Cypress, Jasmine
- Tools:** Git, Bitbucket, Netlify, Render, Linux, NPM, Jira