

Shawn Liu

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EDUCATION

Carnegie Mellon University

Bachelor of Science, Computer Science and Physics

Pittsburgh, PA

Aug. 2017 – Dec 2021

PROFESSIONAL EXPERIENCE

Omnicell, Inc.

Software Engineer I

Dec 2021 – Present

Palo Alto, CA

- Built an interactive web app using Angular that supports large-scale distribution of pharmaceutical drugs in health networks, generating over \$44 million in total booking revenue
- Designed and implemented RESTful APIs for a robust backend service using ASP.NET, facilitating seamless communication between services for a high-traffic web application managing 2 million active users
- Collaborated with hardware and UI/UX teams to create user-friendly guided interfaces on cloud platform using Angular and Sass, reducing prescription process time by 25% and nursing errors by 75%
- Developed internal-facing web app with React to automatically generate and scan 150,000 item barcodes for QA testing, expediting system hardening and reducing regression test work every quarter

Omnicell, Inc.

Software Test Engineer Intern

May 2021 - Aug 2021

Cranberry Township, PA

- Engineered a standalone desktop app with Electron and C# that enables developers and QA engineers to test hardware communication while working remotely
- Created automated UI tests with Ranorex that verify the app's integration with existing inventory management software, ensuring alignment with test-driven development practices
- Wrote Jasmine and 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

Software Process Management Intern

San Jose, CA

May 2020 - August 2020

- 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
- Created a mapping and documented software development workflow for the Powergrids R%D team, supporting their transition to a customer-oriented Agile methodology
- 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

The Board - Angular, TypeScript, Chart.js, GraphQL, PostgreSQL

- Spearheaded the development of an operational dashboard that tracks and displays pharmacy restock order data
- Created data visualization widgets for key metrics like restock status and supplier information
- Implemented an Apollo GraphQL server to facilitate efficient real-time data fetching

Brain Blitz - React, HTML, CSS, Socket.io, Express.js

- Developed a web-based trivia game that fetches data from the Open Trivia Database API
- Implemented a WebSocket server that enables seamless, real-time multiplayer gameplay
- Bundled project with Webpack and deployed app online with Netlify and Heroku

TECHNICAL SKILLS

Languages: Python, C#, HTML/CSS, JavaScript, TypeScript, SQL, GraphQL

Frameworks: React, Angular, Sass, ASP.NET, SQL Server, PostgreSQL, Cypress, Jasmine

Developer Tools: Git, Docker, Swagger, VS Code, Visual Studio, Netlify, Heroku, Jira