Shawn Liu

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science, Computer Science and Physics   *Aug. 2017 – Dec 2021*

PROFESSIONAL EXPERIENCE

TikTok, Inc.   Santa Clara, CA
Software Engineer, Ads Measurement Signal Team   *July 2024 – Present*
- Developed scoring feature for flagship ads management web app with 5,000 DAU using React and Golang that gauges the probability of matching customer web interactions to a TikTok user profile
- Supervised A/B tests to evaluate new scoring feature and collaborated cross-functionally with data engineers to measure KPIs, improving adoption rate by 28% and increasing match rate by 19%
- Designed and implemented diagnostic infrastructure revamp using Golang, reducing the delay of metrics calculations from 2 days to 10 minutes, therefore allowing near real-time diagnosis warnings
- Led the development and release of an announcement module in client landing page using React, boosting advertiser adoption of announced features by 6% and creation of web trackers by 1.12%

Omnicell, Inc.   Palo Alto, CA
Software Engineer   *May 2021 – Aug 2021 (intern), Dec 2021 – July 2024*
- Built an interactive web app using Angular and C#/.NET that supports distribution and tracking of millions of pharmaceutical drugs in health networks, generating over $44 million in total booking revenue
- 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
- Engineered a standalone desktop app with Electron and C# that enables developers and QA engineers to test hardware communication while working remotely

Hitachi Energy   San Jose, CA
Software Process Management Intern   *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 (Omnicell Hackathon) - Angular, TypeScript, Chart.js, GraphQL, PostgreSQL
- Operational dashboard that tracks pharmacy restock order data (**Most Likely to be Implemented** prize)

Brain Blitz - React, HTML, CSS, Socket.io, Express.js
- Real-time multiplayer trivia game fetching data from open-source API and using a WebSocket server

TECHNICAL SKILLS

Languages: Golang, C#, Python, HTML/CSS, JavaScript, TypeScript, SQL, GraphQL
Frameworks: React, Angular, Sass, ASP.NET, SQL Server, PostgreSQL, Cypress, Jasmine
Developer Tools: Git, Swagger, VS Code, Visual Studio, Netlify, Heroku, Jira