



Education

Boston University

September 2016 - May 2020

B.A. in Computer Science, Minor in Business Administration & Management

Relevant coursework: Software Engineering, Database Systems, Data Structures & Algorithms, Applied Cryptography, Cryptography, Network Security, Privacy & Internet Law, Business, Society & Ethics

Experience

Royal Circuit Solutions / Advanced Assembly, San Jose, CA

August 2020 - Present

Quick-turn, prototype printed circuit board (PCB) manufacturing and assembly services

Software Engineer

- Built production-grade client-side enterprise software in React, used to visualize and automate the engineering logic in performing a Design for Assembly (DFA) check on a printed circuit board, in order to improve assembly job processing time and accuracy.
- Created online customer portal integrated with order data pulled from a SQL Server and Firebase database, to enable customers to confirm order details, check the status of their orders online, track order shipments and receive real-time text/email push notifications about the progress of an order.
- Architected backend server-less system, using AWS Lambda functions, to merge quote and order data from siloed company CRM systems into HubSpot in order to provide a unified source of data between companies and deliver an integrated sales analysis tool.
- Collaborated with leadership and sales teams to understand how each CRM system is used in order to account for all quote/order creation paths and edge cases when devising system requirements and planning extract-transfer-load (ETL) tasks.

Directed Research Study, Boston University, Boston, MA

January - May 2020

Undergraduate Researcher

- Designed a secure multi-party computation (MPC) implementation of a researched algorithm to predict public opinion election polling results using web browsing histories, using a privacy-preserving machine learning model which protects the parties' inputs.

Software & Application Innovation Lab (SAIL), Boston, MA

May 2019 - May 2020

Research, software engineering, and consulting lab bridging the gap between research and industry.

Software Engineer Intern

- Sped up operations for computing over encrypted data by implementing asynchronous secret-sharing extension in secure multi-party computation (MPC) framework, JIFF.
- Co-engineered a front-end mobile application, Game-Plan, with Angular and Ionic and proposed UI features to create a familiar and efficient interface to help people with Intellectual and Developmental Disabilities (IDD) use the mobile application with ease to plan and navigate their day-to-day lives.

Fire Tech Camp, London, UK

July - August 2018

UK's leading provider of tech camps and courses for 9-17 year olds.

Python Tutor

- Led "Teen Coding with Python" courses with challenge-based examples tailored to students' interests to empower them to use technology to approach and solve problems. Awarded Star Tutor of the Week.

Skills

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, GraphQL

Libraries/Frameworks: React, Redux, Angular, Ionic, Node.js, Express, Flask, Three.js

Other: Git, Unit Testing, APIs, CI