

# Ashni Shah

ashni.07@gmail.com (857) 253 8870



www.sashni.com



github.com/sashni



linkedin.com/in/ashni-shah

## 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 Circuits Solutions, San Jose, CA**

August 2020 - Present

*Quick-turn, prototype printed circuit board (PCB) manufacturer*

Software Engineer

- Developing custom enterprise software in React, that creates a graphical representation of a PCB assembly layout and automates the engineering and business logic associated with performing a Design For Assembly (DFA) check on a prototype, in order to improve assembly job processing time and accuracy.

**Directed Research Study, Boston University, Boston, MA**

January - May 2020

Undergraduate Researcher

- Designed a secure multi-party computation (MPC) algorithm, analogous to a researched algorithm to predict public opinion election polling results using web browsing histories, for 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.
- Optimized secure shuffling algorithm to reduce asymptotic time complexity and maintain pattern privacy.
- Co-engineered front-end mobile application, Game-Plan, with Angular and Ionic to help people with Intellectual and Developmental Disabilities (IDD) plan and navigate their day-to-day lives.
- Proposed and reworked UI features to create a consistent, familiar and efficient interface for research participants to use the mobile application with ease.

**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 beginner and advanced "Teen Coding with Python" courses with challenge-based learning and 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, Java, C, JavaScript, TypeScript, HTML, CSS, SQL, GraphQL

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

## Leadership

**Director of Operations – Business & Technology Club (BizTech)** September 2018 - December 2019

- Organized "Tech for Society" conference for 150 students to give participants insight into the future of technology. Specifically, managed logistical and operational functions and planned "Cybersecurity and Privacy" panel.
- Led Python workshop initiative to help students improve their technical skills, gain technical project experience and demonstrate how Python can be used in business environments.