

Miffy Chen

Software Engineer
Full-Stack Developer

✉ mchen15@bu.edu
☎ 425-246-3718
🌐 miffychen.tech



🎓 EDUCATION BOSTON UNIVERSITY @ (Boston, MA)

📅 **MASTER OF SCIENCE IN COMPUTER SCIENCE** | GPA: 4.0/4.0 Sept 2017 – May 2020

- Data Structures • Analysis of Algorithms • Computer Networks • Computer Architecture
- Adv. Programming Techniques • Software Engineering • Software Quality, Testing, & Security Management

🌐 **BACHELOR OF ARTS IN PSYCHOLOGICAL & BRAIN SCIENCE** Sept 2011 – May 2015

- Senior Research • Statistics • Developmental / Learning / Personality / Social / Family / Abnormal / Clinical

⚙️ TECHNICAL SKILLS

LANGUAGES

Java, C, C++, C#, Python,
HTML, Haml, CSS, SCSS,
JavaScript, ES6

FRAMEWORKS

Vue.js, React.js,
Jekyll, Spring,
Spring-Boot, Node.js

TOOLS

Git, GitHub,
Postman API, Insomnia,
MongoDB, MySQL

OS

Android, Ubuntu,
Raspbian, Linux Mint

🏆 HACHATHONS

GOOGLE CLOUD & NCAA® HACKATHON @ MIT Media Lab Jan 26, 2019

- Built a machine learning model that identifies winning patterns of every NCAA basketball team in relation to game time using **Python**, **Keras**, and **TensorFlow**, and predicts favorable win conditions against different teams.
- Identified key event variables from basketball game logs over the past 10 years, such as turnovers, steals, blocks, etc., using **BigQuery** and **Data Studio** on **Google Cloud**. Collaborated with a team of 4 others using **Google Colab**.

MLH LOCAL HACK DAY @ Boston University | BostonHacks Dec 01, 2018

- Built a dating app and web service modeled after Tinder using **Spotify's APIs**. Matches users based on music currently listening to or song selected, with optional features for text messaging using **Firebase**, and voice calling using **VoIP**, after matching. Written with **Bootstrap** and **Android Studio**.

🚀 PROJECTS

TRIO (3-IN-1 PROJECT MANAGEMENT TOOL) Java, Spring-Boot, Vue.js, AWS, Firebase, MySQL

- Modeled after: Trello (PM dashboard), Slack (instant messaging), and GitHub (version control & issue tracker).
- Tasks displayed as cards, managed in stages, stored in boards for each individual project. Task assignable to users. Users include managers, teammates, and clients, each with different privileges. Due date tracker + reminders. Mark tasks or stages ready to be reviewed, receive support tickets from clients. Review & prioritize tickets.
- Sort conversations by channels, invite co-workers to channels, limit user access to channels. Send email alerts.

CPU SCHEDULING SIMULATOR Java, Java Swing, JavaFX, MySQL

- Created an interactive **GUI** that simulates CPU scheduling by allowing users to customize process arrival times, add & remove processes, select different algorithms, and view animated simulation runs, using **Java Swing** and **JavaFX**.
- Displayed results in Gantt Charts, with option to save or import numeric datasets using **MySQL** as database.

RASPBERRY PI ALEXA (DIY AMAZON ECHO) Raspbian, AWS, AVS, Python

- Converted the **Raspberry Pi** into a functioning Echo Dot by using the **Alexa Voice Service (AVS)** library on **Amazon Web Services (AWS)**.

RASPBERRY PI SURVEILLANCE CAM + WEB SERVER Raspbian, Android, Java, SSH

- Built a surveillance camera using the **Raspberry Pi 3** motherboard in **Raspbian OS**, hooked up to a custom web server set up using **SSH**, with configurable settings through an **Android** device.