Miffy Chen

Software Engineer Full-Stack Developer 🔀 mchen150bu.edu ₲ 425-246-3718 miffychen.tech



Sept 2017 - May 2020

👻 EDUCATION BOSTON UNIVERSITY @ (Boston, MA)

- MASTER OF SCIENCE IN COMPUTER SCIENCE | GPA: 4.0/4.0
 - Data Structures

- Analysis of Algorithms
 - Computer Networks Computer Architecture
- Adv. Programming Techniques Software Engineering Software Quality, Testing, & Security Management Sept 2011 – May 2015
- **BACHELOR OF ARTS IN PSYCHOLOGICAL & BRAIN SCIENCE**
 - Senior Research Statistics Developmental / Learning / Personality / Social / Family / Abnormal / Clinical

TECHNICAL SKILLS

LANGUAGES	FRAMEWORKS	TOOLS	OS
Java, C, C++, C#, Python,	Vue.js, React.js,	Git, GitHub,	Android, Ubuntu,
HTML, Haml, CSS, SCSS,	Bootstrap, Jekyll,	Postman API, Insomnia,	Raspbian, Linux Mint
JavaScript, ES6	Spring-Boot, Node.js	MySQL, MongoDB	
HACHATHONS			

HACHATHONS

HACK(H)ER413 @ UMass Amherst | *Recipient of Best Use of Google Cloud Platform Award* Feb 09 - 10, 2019

- Built a Machine Learning Model that identifies breed combinations of mix-bred dogs and cats to help raise adoption rates in animal shelters using Google Cloud AutoML Vision. Achieved an accuracy rate of 97.04% with the custom-trained model, a 3.259% improvement from using the pre-trained model of Google Cloud Vision API.
- Built a web UI with REST API that executes Serverless Application Scripts stored on Google Cloud Functions.

GOOGLE CLOUD & NCAA® HACKATHON @ MIT Media Lab

- 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

• Built a dating app and web service modeled after Tinder that matches users based on music currently listening to or song selected using Spotify's API, 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)

- Built a website for project management using Vue.js, powered by Spring-Boot and Maven, with MySQL & Firebase as database, and Firebase for authentication through email, Google, Facebook, and GitHub; hosted on AWS.
- Components include: PM dashboard, real-time cloud messaging, email alerts, version control, and issue tracker.

CPU SCHEDULING SIMULATOR

- Created an interactive GUI using Java Swing and JavaFX that simulates tasks scheduling as handled by the CPU.
- Displayed results in Gantt Charts, with option to save or import numeric datasets using MySQL as database.
- Algorithms implemented included: FCFS, Pre-emptive SJF, Lottery, Round-Robin, and Multi-level Priority Queues.

RASPBERRY PI ALEXA (DIY AMAZON ECHO)

• 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

• 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.

Jan 26, 2019

Dec 01, 2018