BENNY CHENG

Software Developer

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EDUCATION

University of Maryland • College Park — *Bachelors of Science*

Sept 2015 - May 2019

Computer Science | GPA: 3.72

EXPERIENCE

Capital One — *Software Engineer Intern* | Sept 2018 - PRESENT

- Working with Capital One during to develop internal cyber testing tools through machine learning
- Developed 99% accurate binary classification model using Scikit-learn, MongoDB, and Apache Spark.

Student-Initiated Courses — *Instructor* | Sept 2018 - PRESENT

- Taught a university class of 30 on full stack web development
- Discussed topics involving NodeJS, Express, and MongoDB.

Evans & Chambers — *Full stack web developer* | May 2018 - Nov 2018

- Worked with Angular and Spring Boot to develop a scalable management microservice for customers.
- Concept to deployment in less than a months with features such as authentication, database querying, and filter/search.
- Fully designed an interactive and draggable event based calendar.

COURSE WORK

Object Oriented Programming • Discrete Structures • Computer Systems • Imperative Programming • Functional Programming • Assembly • Intro to Adv. Javascript • Intro to PHP MySQL and Apache • Algorithms • Computer Vision • Applied Probability and Statistics • Full Stack w/ NodeJS • Game Programming • Data Science • How Do Innovators Think

SKILL HIGHLIGHT

Java • C • C# • Python • Ocaml • Ruby • HTML • CSS • Javascript • Typescript • Docker • Maven • Gradle • PHP • NodeJS • Express • Mongoose • SQL • React • React Native • Angular • Grails • Matlab • Git • Linux • Scrum/Agile Methodology • AWS

PROJECTS

WhatsEat — *Mobile Application* | Present

- React Native project designed to help indecisive people figure out what to eat through geolocation and ML.
- Design includes Google's Firebase Database and Authentication, Yelp API, and React Redux for state management.
- Deployable to both the IOS and Android platform.

Carefall — *Web & Fitbit Application* | Fall 2018

- Service to monitor, alert, and visualize health data of patients that have collapsed through the use of a Fitbit and Twilio.
- Designed the server side to utilize RESTful API and sockets to fetch, organize, and process data coming from the Fitbit.
- Designed the client side in React to feature live communication with the server to provide live heartbeat and client data.
- Led a team of 4 to create this application in less than 36 hours for John Hopkins' MedHacks – largest medical hackathon.

Rotobrush — *Computer Vision* | Spring 2018

- An implementation of Adobe After Effects' rotobrush tool that tracks estimated motions of objects.
- Developed in Matlab with the idea of local windows and color/shape models to estimate confidence of boundaries.

Close Call — *Web & Mobile Application* | Spring 2018

- A packaged web service that efficiently connects first responders to motor vehicle accident victims as accidents occur.
- Featured real time location through socket connections and an auto parsing csv script running on NodeJS server side.
- Led a team of 4 to create this application in less than 36 hours and winning Booz Allen Hamilton's "Best Hack for Aiding Natural Disaster Recovery Efforts" challenge at Bitcamp – one of east coast's largest hackathons.

WhatsUp — *Web Application* | Spring 2018

- Crowd sourced application that allows users to visualize, process, and filter event data through Google's Map API.
- Developed using NodeJS, Express, MongoDB, and Bootstrap, and deployed on Heroku.