Edmund Cheng

SOFTWARE ENGINEER | TRAVELER | LIFELONG LEARNER

(+1) 917-615-3235 | ec3219@nyu.edu | edmundcheng.ml | edmundcheng221 | edmundcheng221

Skills and Technologies

PROGRAMMING, SOFTWARE & TOOLS

- **Proficient:** Python, HTML5/CSS3, JavaScript/TypeScript MATLAB, Angular, Git, MS Suite, SQL | **Familiar:** Swift, Java, SQLite3, MongoDB

Work Experience

Siemens Corporation
Remote

FRONTEND SOFTWARE ENGINEER
Nov. 2021 - Present

- Develop an **Angular** web application that assists in the ordering of Atellica Hema Configurator analyzers by recommending number of machines, setup/configurations, and bill of materials based on the volume of samples that need to be run and expected annual increase.
- Utilize **AWS services** such as **S3**, **CodeCommit**, **CodeBuild** and **CodePipeline** for **deployment**, **version control**, and **CI/CD** respectively.
- Write and execute **automated unit tests** with **Jasmine** and **Karma**, and **end-to-end tests** via **Protractor**.

Blue Eye Soft Corporation
Remote

FULL STACK DEVELOPER
Feb. 2021 - Nov. 2021

- Developed and deployed a full-stack web application that connects the visually impaired with services based on their geospatial location.
- Used **HTML5**, **CSS3**, **JavaScript/JQuery** to develop **ADA compliant** and **responsive front end** layouts for optimal user experience.
- Utilized **Google Drive API**, **Python** and modules such as **numpy**/**pandas** to download, parse and perform **data ETL** on large amounts of data (**8GB+**) from the NPPES NPI Registry as well as from 50+ Google Sheet Documents.
- Utilized services such as **WayScript** to schedule **cron** jobs to run python scripts and upload JSON/CSV output files to an S3 Bucket.
- Utilized **cloud services** such as **AWS EC2**, **AWS S3**, **AWS Cloudfront CDN**, **AWS RDS MySQL** for deployment, content delivery, and storage.
- Developed a **Node** application/proxy server that interacts with data stored in **S3**, sorts and **caches** the data, and outputs a **JSON** response.
- Wrote **SQL queries** as well as made **API calls** through **asynchronous promises** with **JavaScript**/**jQuery** to fetch data to the frontend.
- Developed and deployed a **Flask** application that queries the Clinical Trials Transformation Initiative open-source **PostgreSQL** database and returns relevant **JSON** data based on URL parameters passed.
- Made modifications and fixed bugs based on feedback from the first test users as well as from **unit tests**.
- Created membership levels and utilized **Stripe** to securely collect payments from subscribers who want to gain access.

WILD Technologies AI
London, England

SOFTWARE ENGINEER INTERN
Feb. 2019 - May 2019

- Used **Django** to develop a backend that parses data and sends responses to the frontend using **REST APIs**.
- Worked on Front-End development using **Angular**, **HTML5**, **CSS3**, **JavaScript** and **TypeScript**.
- Developed **scalable algorithms** that parses relevant data from marathon websites using the **Scrapy** tool and built **RESTful APIs** using Python.

Projects

Smylen (Contract)
Brooklyn, New York

SOFTWARE ENGINEER
October 2021

- Developed a Full Stack **Vue.js** and **Node.js** web application that takes in images of insurance cards and returns data in formatted plain text.
- Utilized **AWS-SDK** for node to interact with services such as **AWS S3** for persistent storage of images and **AWS Textract** for **OCR** and text extraction from images.

Contactless Delivery Drone
Brooklyn, NY

SOFTWARE ENGINEER | http://ravenclawdrone.herokuapp.com/
Aug. 2020 - Present

- Design and simulate a contactless delivery drone which utilizes both drone and soft robotic technologies.
- Spearheaded the development of a **responsive web application** for the team project using the **React framework**.
- Dockerized the application with **Docker** and **Nginx** and deployed application to **Heroku**, utilizing the CI/CD pipeline.

Employee Tracking Application
Brooklyn, New York

SOFTWARE DEVELOPER | https://github.com/edmundcheng221/employee-tracking
Apr 2021

- Developed a **Flask** application to allow for users to create, read, update, and delete employee data from a **MongoDB** database.

Education and Awards

New York University, Tandon School of Engineering
Brooklyn, NY

B.S. IN MECHANICAL ENGINEERING | GPA: 3.279 | MAJOR GPA: 3.511 | F20 -S21 DEAN'S LIST
Aug. 2017 - May. 2021

- NYU London Study Abroad. Society for the Advancement of Material Processes and Engineering, Trio Scholar Program, ASME (NYU Chapter)
- Recipient of the International Baccalaureate Diploma with certificates in Mathematics, Physics, English