

Mohit Chhaya

(919) 717-6538 · mchhaya2@illinois.edu · mohitchhaya.me · github.com/mrchhaya · linkedin.com/in/mrchhaya

EDUCATION

University of Illinois - Urbana Champaign

2024

Bachelors of Science in Computer Science + Linguistics

Coursework: Compiler Construction (Fall 22), Computer Systems (Fall 22), Programming Languages & Compilers, Data Structures, Discrete Structures, Computational Morphology, Linear Algebra

EXPERIENCE

Amazon

August 2022 - November 2022

Software Development Engineer Intern

- Incoming Software Development Engineering Intern for Fall 2022 on the IMDb team.

Addition Technologies Inc.

November 2021 - Present

Software Engineer

- Engineered web scraper on Cloud Run utilizing Selenium and Python to scrape **5000+** advertisements, exposed as an **API**, used to shortening marketers data wrangling time by ~15%
- Created database utilizing both **Firestore** and GCP Cloud Storage to store **5000+** pieces of advertiser metadata.
- Design and deploy an end-to-end data pipeline utilizing Google's **Natural Language Processing API's**, **OpenAI's GPT-3**, and the Contrastive Language-Image Pre-Training (CLIP) **neural network** to generate question-answer scenarios and chatbots for various companies.
- Decreased latency of **Google Cloud Run** jobs by **70%** and rendered data to a web app built using **React.js**
- Set up relational **MySQL** Database consisting of **12+** tables to streamline data pipelines, saving developers ~**100 hours**

Disruption Lab at Gies

January 2022 - May 2022

Software Developer

- Commissioned by **Ernst & Young** to research and implement options pricing models on IBM quantum computers.
- Implemented highly efficient quantum versions of Binomial Pricing and Monte-Carlo
- Developed quantum finance software using **Qiskit** and **Python**. Utilized **transpilers** to convert from Qiskit quantum circuits to AWS circuits

Mercury Signs Inc.

July 2020 - July 2021

Project Manager

- Created a financial dashboard using REST API's, Selenium Web Scraping, Python, and **Google Cloud Platform** to monitor financial data on **2000+** customers.
- Automated customer pipeline to bring greater visibility to each customer using Google Cloud Functions, Cloud Pub/Sub, Gmail REST API, and Python. Automatically handled **1000+** customer interactions.
- Achieved a ~**20%** higher customer retention rate and increased customer acquisition by ~**30%**.

PROJECTS

Search Engine | C++, Python, Flask, React.js, PyTest

January 2022

- Created a novel Search Engine that utilizes various string matching **algorithms** for efficacy. (Jaccard Index, TFIDF Ranking, Cosine Similarity, Ratcliff Obershelp)
- Developed **Flask** backend in Python for a web application and **RESTful** API which was deployed on Heroku.
- Rewrote project in **C++** for performance and utilized **multithreading** for performance boost of ~3s.

WeatherOrNot | Python, Tensorflow, Django, Bootstrap, SQL

August 2021

- Developed a health assistant that analyzes risks based on climate and various meteorological factors.
- Built a fully responsive web application with the **Django** framework and **Bootstrap**.
- Implemented a relational **SQL** database to store user data. Utilized a mail server to send risk factors via email daily.
- Queries **REST API's** for local weather data and other factors.

NoTestNoProblem | Python, Tensorflow, Django, Keras

July 2020

- Developed an alternative COVID-19 testing platform to address the shortage of tests at the start of the pandemic.
- Trained a **Convolutional Neural Network** utilizing K-Fold Cross-Validation through **Tensorflow** and Keras.
- Created web application using the **Django** framework.
- Won **Best Business Potential** at Flare Hacks 2020.

TECHNICAL SKILLS

Languages: Python, C++, Javascript, Haskell, Java, Typescript, HTML/CSS, SQL, SAS, C#

Tools: Git, AWS, GCP, Docker, Heroku, Azure, MongoDB, React, Node.js, Flask, FastAPI, Kubernetes, Tensorflow, Linux

CERTIFICATES

SAS Certified Base Programmer for SAS 9

SAS · 2020

Natural Language Processing Specialization

DeepLearning.AI · 2021