

Mohit Chhaya

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EDUCATION

University of Illinois - Urbana Champaign

2023

Bachelors of Science in Computer Science + Linguistics

Coursework: 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.

Disruption Lab at Gies

January 2022 - May 2022

Software Developer

- Collaborated with a team of 7 people, selected and commissioned by **Ernst & Young**, to research novel methods in Quantum Finance.
- Implemented classical options pricing models such as: Black-Scholes, Binomial Pricing, and Monte-Carlo on IBM quantum computers.
- Developed quantum finance software using **Qiskit**.

Addition Technologies Inc.

November 2021 - May 2022

Python Engineer

- Parsed **500+** ads from TikTok's ad library using Selenium and reverse engineered XHR requests to create a dataset.
- Created database utilizing both Firestore and GCP Cloud Storage to store **2000+** pieces of advertiser metadata.
- Leveraged Google API's for **Natural Language Processing** and Video processing to create end-to-end data pipeline.
- Utilized GPT-2 and the Contrastive Language-Image Pre-Training (CLIP) **neural network** to generate descriptive captions and create question-answer scenarios for advertisers.
- Set up autonomous cloud jobs using **Google Cloud Run** that return data to a web app built using **React.js**.
- Set up relational **MySQL** Database consisting of **12+** tables to store and hold data from multiple companies.

Mercury Signs Inc.

July 2020 - July 2021

Project Manager

- Created a financial dashboard using REST API's, Selenium Web Scraping, Python, and Google Cloud Services 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 | Python, Flask, React.js, TailwindCSS, PyTest

January 2022

- Created a novel Search Engine that utilizes various search **algorithms** for efficacy. (Jaccard Index, TFIDF Ranking, Cosine Similarity)
- Developed **Flask** backend for a fully responsive web application and **RESTful** API that serves data in **JSON** format.
- Leveraged **React.js** to build frontend alongside **TailwindCSS** for accessibility.

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.

CERTIFICATES

SAS Certified Base Programmer for SAS 9

SAS · 2020

Natural Language Processing Specialization

DeepLearning.AI · 2021

TECHNICAL SKILLS

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

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