

# Mohit Chhaya

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## EDUCATION

### University of Illinois - Urbana Champaign

2023

*Bachelors of Science in Computer Science + Linguistics*

**Coursework:** Data Structures, Discrete Structures, Computational Morphology, Linear Algebra

## EXPERIENCE

### Fidelity Investments

Summer 2022

*Full Stack Engineering Intern*

- Incoming Full Stack Engineering Intern for Summer 2022.

### Disruption Lab at Gies

January 2022 - Present

*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 a quantum computer.
- Developed quantum finance software using **Qiskit**.

### Addition Technologies Inc.

November 2021 - Present

*Python Engineer*

- Parsed **500+** ads from TikTok's ad library using Selenium and reverse engineered XHR requests to create a dataset for further analysis.
- Created relational database between Firestore and GCP Cloud Storage to store **2000+** pieces of advertiser metadata.
- Leveraged Google API's for **Natural Language Processing** and Video processing.
- Utilized GPT-2 and the Contrastive Language-Image Pre-Training (CLIP) **neural network** to generate descriptive captions and create question-answer scenarios for advertisers.

### 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

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