

Mohit Chhaya

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EDUCATION

University of Illinois - Urbana Champaign

Urbana, IL

Bachelors of Science in Computer Science + Linguistics

2023

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

EXPERIENCE

Fidelity Investments

Durham, NC

Full Stack Engineering Intern

Summer 2022 - Present

- Incoming Full Stack Engineering Intern for Summer 2022.

Addition Technologies Inc.

Urbana, IL

Python Engineer

November 2021 - Present

- Parsed **500+** ads from TikTok's ad library using Selenium and reverse engineered XHR requests to create a dataset for further analysis.
- Utilized Firestore and GCP Cloud Storage to store data, alongside Cloud Video Intelligence and Natural Language API's to develop insights about specific videos.
- 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.

Apex, NC

Project Manager

July 2020 - July 2021

- 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%**.

EXTRACURRICULARS

Illinois Labs

January 2022 - Present

Software Developer

- Creating Software for UIUC students, by UIUC students.
- Leveraged React.js to create a web application for crowd sourced study spots.

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**.

University of Illinois

August 2021 - December 2021

Undergraduate Researcher

- Implemented trading algorithms for Leveraged ETF's and bonds.
- Utilized **Python** and **Pandas** for data visualization, preprocessing, and cleaning

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.

TECHNICAL SKILLS

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

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