

Mohit Chhaya

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EDUCATION

University of Illinois - Urbana Champaign

2024

Bachelors of Science in Computer Science + Linguistics

Bachelors of Science in Brain and Cognitive Science

Coursework: Distributed Systems, Computer Systems, Programming Languages & Compilers, Algorithms, Data Structures, Software Engineering, Discrete Structures, Computational Morphology, Linear Algebra

SKILLS AND INTERESTS

Interests: Programming Language Theory, Compilers, Fullstack Engineering, Large Language Models, Distributed Systems

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

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

EXPERIENCE

Balyasny Asset Management

June 2023 - August 2023

Software Engineering Intern

- Summer 2023 Intern on the Data Intelligence Group.

Cisco

January 2023 - April 2023

Software Engineering Intern

- Architected custom React.js table rendering library to replace previous iterations. Used by **6+** team members. Implemented custom caching, filtering, pagination, and sorting.
- Rewrote Java API endpoints using the Spring framework to support **1000+** requests per hour.

Amazon

August 2022 - November 2022

Software Development Engineer Intern

- Developed **in-production**, consumer-facing, features for the IMDb Android App.
- Engineered **GraphQL** queries for data fetching, optimized to reduce time to load by **5%**
- Built horizontal scrolling view pager with persistent user-based data caching using **Kotlin** and the Apollo Graph Client.
- Designed feature for the IMDb homepage to intercept **100,000** clicks that increases engagement by 2%.

Addition Technologies Inc.

November 2021 - August 2022

Software Engineer

- Designed and deployed 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.
- Engineered web scraper on Google Cloud Run utilizing Selenium and Python to scrape **5000+** advertisements, exposed as an **REST API**, used to shorten marketers data wrangling time by ~15%
- Created database utilizing both **Firestore** and GCP Cloud Storage to store **5000+** pieces of advertiser metadata.
- 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**

Mercury Signs Inc.

July 2020 - July 2021

Software Engineer

- Designed a financial dashboard using REST API's, Selenium Web Scrapping, Python, and **Google Cloud Platform** to monitor financial data on **2000+** customers.
- Achieved **20%** increase in customer retention rate and handled **1000+** interactions by automating a customer pipeline using Google Cloud Functions, Cloud **Pub/Sub**, Python, and the Gmail REST API.

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)
- Programmed **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.

Memory Allocator | C, Make

August 2022

- Created implementations of **malloc**, **calloc**, and **realloc** in **C**.
- Optimized memory allocation with best fit block selection, block coalescing, block splitting, and free lists.

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. connected to a mail server to send risk factors via email daily.
- Set up continuous feedback loop by building a **Tensorflow** reinforcement model.