Utkarsh Jain

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EDUCATION

UNIVERSITY OF WISCONSIN, MADISON

B.S. in Computer Science
2017 - 2019
Cum. GPA: **4.0/4.0**

DELHI TECHNOLOGICAL UNIVERSITY

B.Tech. in Computer Science
2015 - 2017

LINKS

Personal Website:
utkarshj1303.github.io
Github:// **utkarshj1303**
LinkedIn:// **utkarshj1303**

COURSEWORK

GRADUATE

- Computer Vision

UNDERGRADUATE

- Matrix Methods in Machine Learning
- Introduction to Artificial Intelligence
- Data Management for Data Science
- Medical Image Analysis
- Bioinformatics
- Intro to Operating Systems
- Computer Networks
- Data Structures
- Design and Analysis of Algorithms

MOOCS

- Machine Learning (Coursera)
- Deep Learning Specialization - Convolutional Neural Networks (Coursera)
- Become an Android Developer from Scratch (Udemy)
- Algorithms: Design and Analysis, Part 1 (Coursera)

SKILLS

PROGRAMMING

Most Frequently Used:
• C++
Frequently Used:
• Java • Python • C • Javascript
Familiar:
• Scala • MATLAB

COMPETITIVE PROGRAMMING

Participated in some coding competitions using **C++** .

- USA Rank 405, Codechef
- Rank 74, OpenBracket Delaware - Invited to Onsite Round
- Rank 260, Google Kickstart Practice Round 2018

EXPERIENCE

AMAZON | Software Engineer
October 2022 – Present | New York, New York

- Collaborated with a team member to successfully design and implement all required functionality to transition away from Salesforce for advertising campaigns exceeding $750k.
- Designed and implemented a **custom Google Drive-like system** from scratch, closely working with and receiving constant feedback from the product team.
- Developed the back end for the Google Drive-like system using **Java, AWS S3, and AWS DynamoDB** . Implemented the front end using **JavaScript and React** .
- Successfully met the original tight deadline for the system despite a team member taking an unexpected medical leave by taking over and finishing their work along with mine.

TWITTER | Software Engineer
September 2021 – June 2022 | New York, New York

- Worked on the Messaging team which manages the **Apache Kafka** infrastructure at Twitter and provides API's to internal clients to help them effectively use Kafka for their needs.
- Created dashboards to help customers get a better insight into the performance of their Kafka Connect instances.
- Helped automate a tedious workflow which helped customers quickly deploy Kafka Connect instances by themselves.
- Rapidly on-boarded and participated in on-call shifts where I independently closed most of the pages assigned to me.

BLOOMBERG | Software Engineer
August 2019 – September 2021 | New York, New York

- Identified bottlenecks by analyzing performance for different service configurations (number of threads etc) under different loads using a Jupyter notebook/Python.
- Helped **increase the throughput of our main I/O bound C++17 service 3x** by reducing slow service calls.
- Contributed to a dashboard for monitoring service throughput.
- Contributed to the team wide migration efforts from our old to new stack by adding various features/fixing bugs.
- Took various internal technical courses including a course in modern C++.

CHICAGO TRADING COMPANY | Software Engineering Intern
June 2018 – August 2018 | Chicago, IL

- Was solely responsible for my project which consisted of writing two small services in **Java** and a UI using **Java Swing** , all completely from scratch.
- My project which displayed information to traders using heatmaps which was put into production by the end of my internship and was heavily used by traders to capitalize on the volatility in Tesla options at the time.

PROJECTS

JOURNALING WITH CHATGPT

- Working on an app designed to help users journal about their lives and take notes, with assistance from **OpenAI's GPT-3.5 model** .
- The app allows users to take notes and journal throughout the day by talking to the chat-bot which will be saved. The chat-bot can then remind you of previous conversations and journal entries that are relevant to your current situation similar to someone that knows you well.
- The goal is to help people be more mindful about their life and remind them of what's going on even when it feels like they've just been on auto pilot and the days have blurred together.
- The app uses Pinecone to store vector embeddings to allow for semantic searches over previous journal entries and notes.

STEREO VISUAL ODOMETRY

- Implemented a real-time stereo visual odometry algorithm based on Howard's paper, using Python and OpenCV 3.0, to plot the trajectory of a moving vehicle from a sequence of images captured by an onboard camera.