Sai Praveen Mylavarapu

in praveenmylavarapu — ☺ praveenmylavarapu

✉ saipraveenmylavarapu@gmail.com

☐ (716) 256 - 7465

EDUCATION

University at Buffalo, The State University of New York — Buffalo, New York
Master of Science, Computer Science and Engineering; GPA: 3.94/4 — December 2023

PSG College of Technology — Coimbatore, India
5-Year Integrated M.Sc, Theoretical Computer Science; GPA: 8.12/10 — May 2020

EXPERIENCE

KLA Corporation — Milpitas, California
Software Development Engineering Intern — May 2023 - August 2023

- Developing software for the SensArray FOUP, which captures temperature data from sensors during the manufacturing process of silicon wafers.

Goldman Sachs — Bengaluru, India
Software Development Engineer — January 2020 - July 2022

- Designed and implemented an automation system for the migration of over 50,000 software projects across the firm from a legacy in-house SDLC stack to GitLab CI/CD, saving thousands of hours of developers' time.
- Developed a service to enforce code reviews for merge requests from appropriate SMEs for all the sensitive code in the firm that has a direct impact on the company's finances. Created an automated tool for identifying the sensitive Java and Python code snippets from the developers' test cases.
- Worked on software supply chain component analysis to identify and reduce risk to the firm from the usage of third-party and open-source libraries. Developed an automated software bill of materials (SBOM) generation tool to track dependencies of all the software projects across the firm.

L3S Research Center — Hannover, Germany
Visiting Researcher — November 2019 - December 2019

- Worked with Prof. Avishek Anand on the scaling of Graph Neural Networks. Implemented an algorithm for reducing the training time of Graph convolutional networks (GCNs) by exploiting the properties of graphs while ensuring good accuracy and memory consumption.

Goldman Sachs — Bengaluru, India
Software Development Engineering Intern — May 2018 - October 2018

- Developed a product to monitor breaches in the SLOs of firm wide applications during their runtime.
- Used Spark structured streaming for streaming and processing the real time telemetry of applications. Built a data pipeline to make the telemetry of applications accessible for detecting SLO breaches.

PROJECTS

- **Rubik's cube solver** An Arduino robot that solves Rubik's cube mechanically, using Kociemba's algorithm. Stepper and servo motors execute the steps of the algorithm progressively.
- **IDK my friends** An application that surprises the users by finding unknown friendship relations in their friends circle. People with connections across communities are found by using variants of Girvan-Newman algorithm. Implemented in Python using Networkx and Matplotlib libraries.
- **Chocolatier** A chocolate business simulation game where the player uses strategies to improve their business by buying raw materials, manufacturing chocolates, and selling them for higher profits. Implemented using object-oriented programming concepts in C++.

PUBLICATIONS

- **Mylavarapu S.P.**, Govindarajan S. IDK My Friends: Link Analysis on Social Networks to Mine Surprise Connections. In: Computational Intelligence, Cyber Security and Computational Models. Models and Techniques for Intelligent Systems and Automation. ICC3 2019. CCIS, vol 1213. Springer, Singapore.

PROGRAMMING SKILLS

- **Languages**: Python, C, C++, C#, Java, JavaScript, SQL
- **Technologies**: AngularJS, Kafka, Hadoop, Spark, TensorFlow, PyTorch, Flask