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   August 2022 - December 2023

PSG College of Technology   Coimbatore, India
5-Year Integrated M.Sc, Theoretical Computer Science; GPA: 8.12/10   June 2015 - May 2020

EXPERIENCE

KLA Corporation   Milpitas, California
Software Engineer Intern | *C# .NET, Python, Flask, Object-oriented design*   May 2023 - August 2023

- Designed a new architecture for FOUP software, to accommodate future enhancements. Implemented the proof of concept of the software in C#.
- The FOUP software is responsible for managing communication between the hardware abstraction layer and the KLA substrates, as well as reading and transmitting data from embedded hardware sensors to the automation server.

Goldman Sachs   Bengaluru, India
Software Engineer | *Java, Python, DropWizard, Postgres, Kafka, Angular, Jenkins, CI/CD*   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 | *Python, TensorFlow*   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 Engineer Intern | *Java, DropWizard, Kafka, Spark, Hadoop, Terraform*   May 2018 - October 2018

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

PROJECTS

- **Bank of Buffalo** a full-stack web application that simulates a bank. Customers can use this application to deposit and withdraw their money, transfer funds to other users, and view their transaction history. Managers have access to a separate portal where they can add or remove new customers and modify their details. This application is implemented using database concepts in the PostgreSQL database.
- **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**: Angular, Kafka, Hadoop, Spark, TensorFlow, PyTorch, Flask