MOHIT SAI GUTHA

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EDUCATION

Boston University| Boston, USA| GPA: 3.6/4.0
Master of Science in Computer Science — Sept 2023 – Jan 2025
Fall'23 Coursework: Graduate Algorithms, Data Engineering @ Scale, Data Science, Database Systems

PES University| Bangalore, India| GPA: 7.7/10.0
Bachelor of Technology, Computer Science and Engineering — Aug 2018 – May 2022
Relevant Coursework: Machine Learning, Web Development, Data Structures, Network Engineering

WORK EXPERIENCE

GENPACT| Bangalore, India — Oct 2022 - Jun 2023
Software Development Consultant

- Collaborated with a team of 12 to plan and implement the client's transition from mainframe and monolithic architecture to cloud and microservices, driving modernization and efficiency
- Developed Java Spring Boot microservices for payment advice services, contributing to three consecutive releases, and achieving a 70% reduction in the client's operational costs

Johnson Controls Inc| Bangalore, India — Jan 2022 - Jun 2022
Network Engineering Intern

- Designed a web application with embedded Power BI data visualizations and analytics to streamline tracking of company's transition from legacy WAN to SD-WAN, increasing efficiency by 20%
- Led a team of 6 interns from across the globe in the Future Leaders Internship Program, developing innovative alternatives to public green grants and loans, and reached the finals of the Sustainable Innovation Competition

PROJECTS

Remodeling and Unit Loss Analysis — Jan 2024 - May 2024

- Conducted a data analytics project for the Boston Government, analyzing building permits and property assessments to evaluate the impact of remodeling and conversions on housing unit availability, providing actionable insights
- Developed an advanced machine learning algorithm to calculate optimal rent caps and ideal housing unit numbers, projecting immediate benefits for 11.8% of Boston's population and potentially halving housing unit loss rate

Google Cloud-Based Web Application for Data Processing and Access Control — Sept 2024 - Dec 2024

- Deployed and scaled a containerized web application using Google Kubernetes Engine (GKE), ensuring seamless traffic distribution, high availability, and fault tolerance for handling increased traffic loads efficiently
- Integrated Cloud SQL to store and manage request logs in a normalized database structure, while using Apache Beam and Dataflow for large-scale analysis of cloud-stored files, improving data processing and reporting capabilities

Epidemic Engine Data Pipeline — Jan 2024 - May 2024

- Implemented an end-to-end, dockerized data pipeline, enabling real-time processing of over 1 million health event records, with batch analysis using Hadoop, MapReduce, and PySpark along with scalable data ingestion using Kafka
- Deployed a Spark ML model using Gradient Boosting Trees within Docker for real-time retraining from Kafka-streamed data, achieving a 99.8% accuracy rate and a 99.7% F1-score for health risk predictions

Real time crime detection from live CCTV footage — Jan 2022 - Dec 2022

- Spearheaded the development of a real-time video surveillance system using state-of-the-art video recognition model, SlowFast Networks, integrating a Flask-based user interface, achieving 93.33% anomaly detection accuracy
- Published and presented a paper in the International Conference of Recent Innovations in Research and Development, receiving the Best Presentation Award

SKILLS

Technical: Python, R, Java, C, OOPs, DBMS, Networks, Algorithms, Data Structures, Machine Learning
Tools and Frameworks: Microsoft Office Suite, Pandas, Docker, Google Cloud, PostgreSQL, Power BI, Tableau
Certifications: Advanced SQL using Big Query (Kaggle), Data Visualization (Kaggle)
Additional Skills: Spark, Git, Jira, Solidity, Shell Scripting