Gautham Maraswami

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SUMMARY

Computer Science student with 3+ years of experience in architecture design, machine learning, cloud development, full-stack development, and data engineering actively seeking internship opportunities in fall 2023.

EDUCATION

M.S. Computer Science   May 2024 (Expected)
Arizona State University, Tempe, AZ   **CGPA: 3.89/4**

B.Tech. Computer Science and Engineering   May 2019
National Institute of Technology Karnataka, Surathkal, Karnataka India   **CGPA: 7.02/10**

PROFESSIONAL EXPERIENCE

Data Engineering Intern, Tesla Inc, Fremont, California   May 2023 -August 2023
Skills: Database design, MySql, Git, Jira, JavaScript, Node, React, Docker

- Designed and implemented a highly scalable and robust application for process tracking and graphical analysis in cathode manufacturing process using node and React.
- Redesigned database with 50% reduction in database schemas and 40% reduction in query time.
- Setup documentation and process and testing for smooth development and bug free deployment.

Software Development Engineer – 2, NextScm Solutions Pvt LTD (INCREFF), Bangalore, India   April 2021 – July 2022
Skills: Cloud Computing, Distributed Computing, Architecture Design, JAVA, Infrastructure management, Confluence, training

- Single-handedly developed a hybrid vertically scalable database design. This reduced data redundancy by 80 percent and thus decreased the time consumption which reduced cost to 50 Percent.
- As the youngest tech lead handled the product planning, requirement documentation, roadmap design, prioritization of tasks, and interfaced with the product business team for technical requirements.
- Trained 6 new developers in required technical skills; created training materials and regularly had doubt clearance sessions.

Software Development Engineer – 1, NextScm Solutions Pvt LTD (INCREFF), Bangalore, India   May 2019 – April 2021
Skills: JAVA, Spring, Statistical learning, Software security, Automation, Tableau, Google Cloud Platform, Linux, New Relic, Jenkins

- Designed and developed statistical algorithms for buying, distribution and accurately predicting stock exhaustion with case studies, industry practices and business constraints. Brand margin increased by 25 Percent. Module used by over 40 fashion and retail brands worldwide.
- Migrated single tenant SAAS application to multi-tenant Software Architecture without any disruption of services, this reduced cloud resource utilization to 20 Percent.
- Set up end to end Automated Replenishment system, which could generate orders automatically with no manual intervention as per set frequency.
- Built end to end a scalable authentication and authorization service (SSO) with ISO and GDPR Guidelines.

RELEVANT COURSEWORK

Statistical learning, Data Engineering, Software Engineering, Algorithms, Distributed Computing, Artificial Intelligence, Cloud Computing, Sematic web mining

PROJECTS

Face Recognition Application on Cloud   **Spring 2023**
Skills: Open stack, AWS, Docker, Python, Flask, Cloud Infrastructure coding

- Built an elastic IaaS cloud application on AWS with auto-scaling to start and stop the EC2 instances on-demand. The instances evaluate the requested images using a DNN model and cache the results into an S3 bucket.

Apache Sedona   **Fall 2022**
Skills: Scala, HADOOP, SPARK, JAVA, PYSPARK

- Implemented new geographical data structure for saving polygon and line in Apache Sedona. An open-source framework for geo spatial data processing.

Extending SDN Functionalities in ns-3   **Spring 2019**
Skills: C++, C, Python

- Ns-3 is a network simulator widely used by computer scientists for performing network simulations. We developed features for Software defined network (SDN) integration in it with the help of OpenFlow library.
- Developed a simulation and compared various routing algorithms on different network topologies.