

Vibavari Gurunathan

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EXPERIENCE

Software Engineer

Jan. 2024 - Present

Goldman Sachs

New York, NY

- **Reduced batch time by 33%** by developing scalable **PySpark** data pipelines on **AWS**, processing 10+ TB of data to accelerate delivery for quarterly results and enable multi-dimensional insights into cost and revenue.
- Led the firm's first AWS Backup implementation, collaborating with AWS to ensure robust data recovery.
- Designed a validation architecture for financial data to save 50% of the time spent on manual checks.
- **Reduced failure response times by 83%** by automating glue job failure alerts using AWS CloudWatch and SNS, and **cut cloud costs by 23%** through efficient budget tracking with AWS Budget.

Software Engineering Intern

Jun. 2023 - Aug 2023

Goldman Sachs

Dallas, TX

- **Reduced costs by 17%** by migrating a decision table authoring app (**React**, **Spring Boot**) from on-premise to AWS, containerizing the UI and backend, and deploying them as Fargate Services with ALB load balancing.
- **Accelerated deployments by 50%** by updating GitLab CI/CD workflows to automate the build and publication of **Docker** images, and streamlining deployment to AWS using AWS CDK (**JavaScript/TypeScript**).
- **Enhanced security** by transitioning authentication from WebID to OAuth2.

Software Engineering Intern

May 2021 - Jul 2021

Citigroup

Pune, India

- Developed a full-stack application using **Angular** and **Spring Boot** to replace a legacy trade system, supporting a firmwide UI and tech stack upgrade after a critical wire transfer error.
- **Reduced manual touchpoints by 50%** by developing auto-populating fields using **SQL** and **Spring Boot**.
- **Recognized for exceeding performance expectations** by successfully collaborating with senior team members on a live project and completing 200% of assigned tasks during the internship.

EDUCATION

Arizona State University

Tempe, AZ

Master of Science in Computer Science, GPA: 4/4

Aug. 2022 - Dec. 2023

Cummins College of Engineering

Pune, India

Bachelor of Technology in Computer Science, GPA: 3.7/4

Aug. 2018 - May 2022

PROJECTS

Open Source Contributor, pandas | [Github](https://github.com)

Present

Fixed critical bugs in the **pandas** library, enhancing data processing reliability and performance for its global user base.

Sanction Screening | [Github](https://github.com)

Mar 2021

Developed an **Angular** and **Spring Boot** app to automate sanction screening with 85% accuracy using pattern-matching algorithms like the Levenshtein algorithm.

Tabular Data Summary Generation, Inteliment

May 2022

Built a Python-based system to generate summaries from large tabular datasets, increasing client growth by 15%.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, Javascript/ TypeScript, HTML/CSS

Technologies: Spring Boot, React, AWS, Angular, Django, Git, Docker, Spark, pandas, numpy

Other: Full-Stack Development, Software Testing, Relational Databases, Unix/ Linux (Bash), Agile