

Adithya Thirumalai

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Education

San Jose State University, *Master of Science in Software Engineering* Aug 2024 – May 2026

Coursework: Enterprise Distributed Systems, Software Systems Engineering, Data Mining, Deep Learning

University of Mumbai, India, *Bachelor of Engineering in Computer Engineering* Aug 2017 – May 2021

Coursework: Operating Systems, Data Structures and Algorithms, Object-Oriented Programming, Discrete Mathematics, Database Management System, Computer Networks, Cloud Computing, Machine Learning

Work Experience

Amazon May 2025 – Aug 2025

Software Development Engineer Intern

- Designed and built coordinator system enabling 4 teams to standardize region definitions across microservices in Agile Scrum, improving consistency.
- Automated data release with AWS Lambda, EventBridge, DynamoDB, API Gateway, and IAM, cutting 50% related tickets by eliminating manual coordination.
- Saved ~12 hrs/week, ensuring 100% data consistency and boosting reliability across dependent services.

Accenture Feb 2022 – Sep 2023

Software Engineer

- Engineered scalable data pipelines using Apache NiFi, streamlining transfer of 1TB+ daily data into Hive, boosting pipeline efficiency by ~30%.
- Developed PySpark and Python scripts for ingestion summaries, proactive error logging, and disruption detection, minimizing manual monitoring by 2–3 hours/day and ensuring reliable large-scale processing.
- Refactored SQL queries to reduce cluster resource load by ~25%, accelerating query execution speed.
- Oversaw HDFS workflows handling terabyte-scale data daily, safeguarding data accuracy and availability under high-volume workloads.

Merkle (Previously Ugam Solutions) Jul 2021 – Dec 2021

Associate Data Analyst

- Designed and implemented multi-layered data validation scripts for real-time customer data processing using Quantum, ensuring high accuracy and data integrity.
- Leveraged IBM SPSS to transform unstructured data into structured formats for analytics and ETL workflows.
- Mentored interns on scripting fundamentals and validation techniques, enhancing team automation capabilities.

Relevant Projects

Restaurant Finder Application | *React.js, Node.js, Express.js, AWS, MongoDB*

- Built a full-stack application with RESTful APIs, enabling restaurant search, reviews, and management; integrated Maps API for location-based search.

Automated Pop Quiz Implementation System | *Android, Java, GCP, Firebase*

- Developed dual Teacher/Student apps enabling quiz creation, real-time tracking, and automated grading.
- Teacher app featured quiz formats, reports, and Firebase Firestore integration.
- Implemented secure access codes for student quizzes to mitigate cheating.

Technical Skills

Languages: Java, Python, C/C++, C#, HTML, CSS, Unix Bash, JavaScript, TypeScript, SQL

Frameworks: React, Unity, Node.js, Angular, Hadoop

Databases: MySQL, Oracle, MongoDB, PostgreSQL, DynamoDB

Cloud: AWS (EC2, ECS, S3, RDS, Lambda, EventBridge, API Gateway), GCP (Firestore)

Developer Tools: Git, GitHub, Maven, Gradle, Android Studio, Atlassian Jira