Adithya Thirumalai

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EDUCATION

San Jose State University, *M.S. Software Engineering*   **(Expected) May 2026**
Coursework: Enterprise Distributed Systems, Software Systems Engineering, Data Mining

Vidyalankar Institute of Technology, India, *B.E. Computer Engineering*   **May 2021**
Coursework: Operating systems, Data Structures and Algorithms, Object-Oriented Programming, Discrete Mathematics, Database Management System, Analytical and Problem Solving, Computer Networks, Cloud Computing, Machine Learning

WORK EXPERIENCE

Accenture   **July 2021 – July 2024**
Software Engineer
- Developed & Maintained Data Ingestion Pipelines: Built a metadata-based ingestion pipeline using Apache NiFi to streamline and ingest high volumes of data into Hive tables, optimizing data flow.
- Automated Data Processing: Designed and implemented PySpark and Python scripts to automate daily data
- ingestion summaries, error logging, and detection of data flow disruptions, reducing manual efforts by 2-3 hours daily.
- Optimized SQL for Performance: Crafted complex SQL queries to alleviate cluster load caused by extensive join operations, significantly reducing resource consumption.
- High-Volume Data Management: Oversaw systems ingesting over 1 TB of data daily, ensuring robust performance and data integrity at scale

Merkle (Previously Ugam Solutions)   **July 2021 – November 2021**
Associate Analyst
- Developed Data Validation Scripts: Designed and implemented multi-layered data validation scripts for real-time customer data processing using Quantum, ensuring high accuracy and data integrity.
- ETL and Data Structuring: Leveraged IBM SPSS to transform unstructured data into structured formats, supporting advanced analytics and performing ETL activities to streamline data workflows.
- Mentorship & Training: Trained and mentored two interns on scripting fundamentals and advanced validation techniques, enhancing team capabilities in data validation and automation

RELEVANT PROJECTS

RestaurantFinder Application | *Node.js, Express, React, MongoDB, AWS*
- Built a full-stack application with RESTful APIs, enabling restaurant search, reviews, and business management for users, business owners, and admins; integrated Maps API for location-based search.

Automated Pop Quiz Implementation System | *Android, Java, Google Cloud* | *Link*
- Developed a dual-app system (Teacher & Student apps) enabling quiz creation, tracking, and automated grading.
- Teacher app includes multiple quiz formats, real-time progress tracking, and detailed performance reports, with data stored in Firebase Firestore.
- Integrated secure, unique access codes for quizzes in the Student app to prevent unauthorized access and reduce cheating.

Retro-Styled Landing Page | *HTML, CSS, JavaScript* | *Link*
- Designed a visually engaging retro-themed landing page with custom animations using HTML, CSS, and JavaScript.
- Implemented smooth, immersive scrolling with the Locomotive Scroll library to enhance user experience.

SKILLS

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

Developer Tools: Git, Maven, Gradle, Jenkins (CI/CD), SonarQube, IntelliJ, Android Studio, JMeter, JIRA, Splunk, Hadoop

Frameworks: Spring Boot, Hibernate, MVC, JPA JUnit, Mockito, Cucumber, React, Angular, Node.js, Selenium

Databases: MySQL, Oracle, MongoDB, PostgreSQL, Redis

Cloud: AWS Cloud (EC2, ECS, S3, RDS), GCP (Google Cloud), Kubernetes, Docker

ACHIEVEMENTS & EXTRACURRICULARS

- Led the technical team in the IEEE Student Branch and organized events to promote innovation and collaboration.
- Qualified for state level swimming and wrestling