Sai Kowshik Ananthula

Github LinkedIn Portfolio

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SUMMARY

1+ years of expertise in Software Engineering, design, development, deployment of software applications using Java, J2EE technologies, and CI/CD pipelines. Proven track record of developing applications with React, Spring Boot and working with databases such as MySQL, PostgreSQL, and MongoDB. Proficient in AWS, and Airflow, with a strong understanding of design patterns such as MVC, Singleton, Factory, and Observer.

EDUCATION

Master of Computer Science, Georgia State University, GPA: 3.9	August 2021 – May 2023
Bachelor of Computer Science, GITAM University, GPA: 3.9	June 2017 – May 2021

TECHNICAL SKILLS

Languages: C, C++, CSS, Dart, HTML5, JAVA, JavaScript, Python, SQL, XML.

Databases:Oracle, PostgreSQL, Redis, Firebase, MySQL, , Mango DB

Frameworks: Airflow, DEVS Java, Flutter, Graphql Mockito, Reactjs, REST Api, Spring Boot.

Developer Tools: Android Studio, AWS, Docker, Eclipse, GCP, Git, GIT, Gradle, IntelliJ, Jenkins, JSON, Kafka, Postman, PyCharm, Soap UI, Tableau, Visual Studio, VS Code, YAML.

Software Development Skills: Agile methodologies, Algorithms, CI/CD, Data structures, Design patterns, JUnits, Microservices, Scrum, Shell scripting, Software Development Life Cycle (SDLC), Sonar, Test-driven development.

Other Skills: Code review, Debugging, Design, Monitoring, Product engineering, Testing.

EXPERIENCE

Software Engineer   January 2023 – Present

Global Payments Inc   *Columbus, GA*

- Engineered a highly efficient, low latency client transaction pipeline system utilizing Airflow DAGs, Kubernetes, and Docker; achieved 60% increase in batch-processing efficiency, leading to better productivity.
- Architected and launched backend API and frontend UI using web technologies such as React JS, Spring Boot, EC2, S3, and REST Apis in AWS, Elevated scalability and robustness of the mainframe pipeline by 80%.
- Collaborated with Visa and Mastercard clients in stationing edit packages, optimizer software on 10+ EC2 instances.
- Created POJOs and DAOs for 80+ database entities furnishing Spring JDBC annotation mappings.
- Debugged web services by root cause analysis, including Error Handling, Parsing issues, and facilitated CI/CD using Jenkins, JIRA, and GitHub; reduced customer support issues by 40% and improved system stability.
- Implemented a streamlined documentation process, reducing errors and improving cross-functional collaboration by 40%.

Graduate Software Engineer (Teaching + Research)   August 2021 – May 2023

Georgia State University   *Atlanta, GA*

- Conducted experiments to enhance automobile safety, latency using object detection and IoT sensors, resulting in a 30% reduction in overall system power using Python, JavaScript, SQL, and Java.
- Innovated a collision detection algorithm that performed 80% more adeptly than current models and published an IEEE paper on visual light communication, generating 1.6 million in revenue for M.O.R.S.E studio development.
- Enhanced performance of a Tableau dashboard 4x by indexing at query rather than applying index and context filters.

Software Engineer Intern   June 2022 – August 2022

Global Payments Inc   *Alpharetta, GA*

- Developed and optimized the Correspondence API leveraging Java and Spring framework, resulting in a 40% reduction in account lookup time for client users and improved overall system response, following Agile Scrum development sprints.
- Engineered REST APIs by Spring Boot and Java features Collections Framework, Exception Handling, I/O System, Multi-Threading, and JDBC, resulting in 60% system efficiency and integration with external services.
- Constructed Spring components such as Controller, Validator, Resource Mapping using annotations to handle requests, built custom view templates, and devised Unit and Integration tests leveraging JUnit and Mockitos.

PROJECTS

GSU ThingsBoard | *Python, Flutter, Raspberry Pi, PostgreSQL, Kafka, Rest Api*

- Devised a cross-platform mobile and web application to visualize, control, and communicate between all IoT devices across the GSU Network which assisted in collecting radon gas data from IoT devices 70% more dexterously.
- Visualized device data to show activity status and triggered alarms, saving 10% of investment on IoT devices.

Multi-Storey Parking lot | *DEVS Java, Gradle, Git, Design patterns*

- Pioneered a multi-story parking lot system simulation and analyzed more than 20 scenarios, suggesting best practices to organize traffic and reduce wait times by 40%.
- Implemented the Abstract Factory design pattern in DEVS Java framework using Object-Oriented Programming.
- Created a queuing algorithm using linked lists and DEVS Queue that maximized organizing efficiency by 60%.

Database Hits Optimizer | *Python, MongoDB, Redis, SQL, NoSql*

- Designed an algorithm combining Redis cache with MongoDB and PostgreSQL, reducing database hits by 60%.
- Facilitated querying on SQL and NoSQL, populated with the Twitter data set, improving turnaround time by 80%.
- Assessed the performance of cache combinations with databases, and visualized load characteristics on indexing.