Jaganmohan Reddy Pocha

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GitHub: github.com/jagan-pocha

Education

University of Colorado Denver   **Jan 2023 – Dec 2024**
Master's in computer science, GPA: 3.7/4   *Denver, USA*
Courses: Advanced Computer Architecture, Algorithms, Mobile Computing, Graph Theory, Software Project Management, Machine Learning and Natural Language Processing and Gen AI.

Technical Skills

Languages: Java 11, JavaScript, Python 3, HTML 5, CSS 3, C, SCSS, JSON **Databases**: Oracle, SQL, MongoDB, PostgreSQL
Tools/Frameworks: Spring Boot, React JS, Spring Boot Web, Spring Boot Data JPA, Spring Boot MVC, Spring Security, Hibernate, React JS, Redis, Docker, Kubernetes, Kafka, GIT, Postman, VS Code, Eclipse, Gradle, Maven **Software Engineering Methodologies**: Agile, Scrum **Operating Systems:** Windows

Experience

Intern Optima   **Sep 2024 - Present**
Software Developer Intern   *Houston, Texas*
- Implemented **session and refresh token** logic, integrating **Redis** to store tokens with **TTL**, enhancing application security and   reducing response time by **110** milliseconds through in-memory data management.
- Integrated **Stripe payment gateway** into the app, enabling seamless auto-renewal subscriptions, multi-currency support, multiple languages, and payment methods (debit/credit, PayPal, Apple Pay), improving user retention by streamlining transactions for **40k+** users.

Capgemini   **Jan 2021 - Dec 2023**
Software Developer   *Bangalore, India*
- Developed **80+** endpoints following **SOLID principles**, adding necessary validations to ensure seamless integration and operation between the backend and frontend.
- Conducted thorough testing of **API and business logic with JUnit and Postman tool**, validated and enhanced **80+ endpoints**, resulting in a 40% reduction in integration-related support tickets.
- Created and presented a library of **reusable UI** components following the atomic structure to the client and team, ensuring consistent design across micro frontends and reducing redundant **coding efforts by 35%.**
- Executed comprehensive **unit and integration testing using Enzyme and React**, enhancing application reliability by 25% and reducing post-release defects by **30%.**
- Established a **CI/CD** pipeline using **Jenkins** and **Docker**, reducing deployment time by **40%** and ensuring smooth, error-free deployments.
- Crafted a **JWT token** process that generates token from user details for secure client-server data transmission, with the flexibility to configure expiration time from **10 minutes** to any other value via application properties.

NowApps   **Jun 2019 - Aug 2019**
Android Developer Intern   *Bangalore, India*
- Analyzed Android Studio IDE and Gradle dependency management system and gained a deep understanding of the android and fragment activity lifecycle.
- Developed static Android applications including a calculator and a to-do list app, enhancing understanding of core concepts in Android development and user interface design.

University Projects

AI Powered Talent Shortlisting and Matching Tool | *Python, VS Code*   **Aug 2024 – Dec 2024**
- Engineered an algorithm utilizing advanced Natural Language Processing (NLP) to enhance candidate-job matching, improving hiring efficiency and accuracy by ranking candidates based on profiles and job requirements.

Enigma Machine | *Java 8, Eclipse*   **Jan 2024 – Apr 2024**
- Enhanced the Enigma machine **cipher device** by modifying to include 3 rotors, each rotating 2 steps per character for encryption and decryption, increasing complexity from **676** to **17,576** possible rotor configurations.

Flight Management System | *Android Studio, Postman, Firebase, XML*   **Jun 2023 – Aug 2023**
- Devised an Android app named **Swiftly**, a flight management system that utilizes readily available RESTful APIs to enable users to search for flights across **195 countries** based on source, destination, and travel dates.