PRATEEK AGRAWAL

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EDUCATION

University of Florida, Gainesville, USA   August 2021 - December 2022
Master of Science in Computer Science, **GPA: 4.0/4.0**
Coursework: Analysis of Algorithms, Computer Networks, Software Engineering, Human-Computer Interaction.

Jaypee Institute of Information Technology, Noida, India   July 2014 - June 2018
Bachelor of Technology in Computer Science
Coursework: Data Structures and Algorithms, Operating System, Database Management System.

WORK EXPERIENCE

Amazon, **Software Development Engineer Intern, Seattle**   May 2022 - August 2021
- Migrated Athena Web Services configuration from Safe Dynamic Config to AWS App Config.
- Created an end-to-end pipeline for configuration deployment and saved more than 95% of manual efforts.
- Added AWS Lambda Validators for semantic check and JSON Validators for syntactic check of the configurations.
- Configured Cloudwatch alarms and dashboards to rectify errors in case of failure and perform rollbacks.

Magnitude Software, **Software Engineer, India**   April 2019 - June 2021
- Initiated an automation system for Athena JDBC driver reducing release time by 90%.
- Implemented features such as multiple catalog support, MFA in Athena JDBC/ODBC driver to enhance security.
- Optimized query fetching and parsing with Java, making the process 5x faster for Athena JDBC driver.
- Connected Athena ODBC and JDBC driver to third-party identity providers like Azure AD, and Okta.

Nissan Digital, Software Engineer, India   August 2018 - April 2019
- Developed RESTful APIs for Nissan Leadership Mobile Application with Spring Boot framework.
- Provided a one-stop solution to save leadership time by 90% by showing various KPIs in the same application.
- Architected native android libraries such as Authentication, Image cropping, UI libraries as Common Components.
- Spearheaded a team of 4, from creating user stories to designing and administering the POC.

SOFTWARE ENGINEERING PROJECTS

Peer-to-Peer File Sharing [Java]
- Developed a P2P file-sharing application similar to bit torrent protocol with Choking/Unchoking mechanism.
- Transferred 25Mb file from 1 Linux peer to 5 other Linux peers in approximately 10 mins.

Roombies [Java, NodeJS, MongoDb]
- Devised an Android-based application to help users find a room or a roommate with role-based login.
- Incorporated a matching algorithm to recommend appropriate options to users based on preferences.

Simba Virtual Assistant [Java, Python]
- Designed a chatbot to handle customer queries for ODBC/JDBC drivers reducing support staff work by 70%.
- Extrapolated existing documentation on drivers to enhance learning datasets.
- Formatted documentation into questions and answers with NLP to train the chatbot.

Data Structure Visualization [C++,QML]
- Innovated a visualization tool to visualize linear data structures and sorting algorithms.
- Enhanced the tool further to visualize binary search trees and heap data structures.

TECHNICAL SKILLS

Programming Languages: Java, C++, C, Python, TypeScript
Frameworks/Databases/Build Tools: Spring MVC, Spring Boot, MySQL, PostgreSQL, MongoDB, Ant, Maven, Gradle
Cloud: Amazon Web Services, Azure

CERTIFICATIONS & EXTRACURRICULAR ACTIVITIES

- AWS Certified Developer - Associate (DVA-C01).
- Represented Nissan Digital India at Nissan London customer experience summit, a 24-hour hackathon.
- Finalist of "Magathon" a 48-hour hackathon organized by Magnitude Software.
- Open Source contribution in Amazon's aws-sdk-cpp. (https://github.com/aws/aws-sdk-cpp/pull/1289)
- My Portfolio Website: prateek270.github.io/MyPortfolio/