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.

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

WORK EXPERIENCE

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, PingFederate, and Okta.
- Collaborated with customers starting from requirement gathering to release and delivery of the final product.

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.
- Pioneered an idea for an internal financial application for reimbursement claims.
- Spearheaded a team of 4 starting from creating user stories, designing and administering the POC.

Halwasiya IT Solutions, Android Developer Intern, India   May 2017 - July 2017
- Created scalable backend services common for web as well as mobile applications to utilize resources.
- Released an end-to-end android application including push notifications and a crash analysis tool.
- URL: https://play.google.com/store/apps/details?id=com.oneawadhcenter.halwits&hl=en_AU&gl=US

SOFTWARE ENGINEERING PROJECTS

Peer-to-Peer File Sharing [Java]
- Developed a peer-to-peer file sharing application similar to bit torrent protocol with Choking/Unchoking mechanism.

Roombies [Java, NodeJS, MongoDb]
- Devised an Android-based application to help users find a room or a roommate.
- Enforced role-based login with custom login pages for different types of users.
- Incorporated a matching algorithm to recommend relevant 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 using QT Markup Language 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
Frameworks/Databases/Build: 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)
- Agile Practitioner and also contributed as a Scrum master.