Prasidh Aggarwal

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EDUCATION

Master of Science in Computer Science *Graduation Date: May 2024*
Arizona State University, Tempe, AZ *GPA: 4/4*
Courses: Operating Systems, Software Security, Cloud Computing, Data Visualization, Data Mining

Bachelor of Technology in Computer Engineering *Graduation Date: August 2020*
Manipal Institute of Technology, India *GPA: 3.89/4*
Courses: Principles of Programming, Computational Probability, Graphs Theory, Time series Analysis

SKILLS

Languages: Java, JavaScript, Python, C, C++, Bash, SQL, HTML, CSS, JSON
Frameworks: J2EE, Spring boot, JUnit, Mockito, Spring MVC, React, Node.js, d3.js
Tools: Git, GitHub, JIRA, Confluence, REST, AWS Lambda, AWS EC2, AWS SQS, DynamoDB, Apache Kafka, OpenStack, Docker, Kubernetes, Maven, Gradle, Linux, Unix, Data Structures and Algorithms, MySQL, NoSQL, PostgresSQL, MongoDB
Certifications: Amazon Web Services Certified Cloud Practitioner (Credential)

PROFESSIONAL EXPERIENCE

Deloitte **Bangalore, India**
Software Engineer 2 *February 2022 – April 2022*
- Accelerated deployment of Microservices and Applications through streamlined pipelines built utilizing JIRA, Concourse CI, Jenkins CI, and ArgoCD for Banking Suite, increasing development and deployment efficiency by 90%.
- Customized an integration between AWS Parameter store, AWS Secrets Manager, Docker, and Spring boot for Banking Suite DevOps team, enabling rolling restarts and automatic properties refresh for microservices, with no application downtime.
- Assessed transaction risks and integrated an AI-powered risk engine (Feedzai) according to industry trends, with Deloitte's in-house Banking Suite product, flagging 2500+ fraud transactions, and alerting production users via text/e-mail.

Deloitte **Bangalore, India**
Software Engineer 1 *September 2020 – February 2022*
- Engineered, coded, and deployed 80+ REST APIs (ACH payments, credit card transactions, loan management, event notifications, transaction fraud detection, etc.) for Banking Suite, leveraging Java and Spring Boot. Built under Microservices architecture (MSA) on US banking cores - Mambu, Finxact, and Salesforce, this effort facilitated achieving 4 core project MVPs.
- Spearheaded an integration between AWS MSK and Apache Kafka, commissioning an event-driven architecture for vendor notifications (specifically ACH and Credit cards) and reduced API response times by 90%. Led a cross-functional team through implementation, ensuring seamless collaboration and achieving significant improvements in system efficiency.
- Effectively launched loan origination and management microservice, facilitating streamlined loan applications, refinancing, rescheduling, and amendments for 5000+ users with an 80% reduction in internal API calls.
- Collaborated with product management teams for SDLC cycle, designing 50+ UML diagrams, 250+ test cases with JUnit and Mockito, resulting in a 90% increase in overall code coverage. Maintained technical documentation through Open-API contracts (Swagger) for REST APIs, enabling streamlined API integrations for both frontend and backend teams.
- Received the Deloitte Applause award 5 times in a row, for outstanding contributions to clients and firm.

PROJECT EXPERIENCE

Data Visualization VAST Challenge 2022 | *HTML, Bootstrap, JavaScript, D3.js, Node.js, SQLite* | Link (Req. access) **Fall 2023**
- Crafted a dashboard with 7 interactive visualizations/charts (grouped bar, horizontal bar, bee-swarm) to analyze trends in urban mobility and lifestyles of people of Ohio harnessing D3.js and SQLite schemas, optimizing response times for 15k+ data records.
- Managed project planning and development for a six-member team following Agile methodology with biweekly deliverables, showcasing exceptional communication skills.
- Enhanced user experience by implementing tooltips and legends to provide chart details on demand, reducing opacity on selections.

Cluster Validation – Meal Data Analysis | *Python, Pandas, Scikit-learn,* | Link **Spring 2023**
- Built an end-to-end data pipeline in Python for clustering and analysis of 15K+ meal glucose readings to uncover trends in a person's daily carb intake based on gathered CGM and Insulin data.
- Investigated DBSCAN and KMeans revealing DBSCAN had 20% higher accuracy for irregular meals. Implemented automated pipeline for large-scale analysis to uncover personalized carb intake patterns from glucose data.
- Implemented preprocessing, feature engineering, clustering (KMeans, DBSCAN), to group meals into seven carb categories.

Scalable Image Classification with AWS Optimization | *Java, Python, S3, SQS, CloudWatch* | Link **Spring 2023**
- Enhanced system performance by optimizing auto-scaling policies, CloudWatch alarms, and implementing custom step-scaling based on m1-m2 metrics, reducing processing time by over 50% during testing.
- Implemented a scalable AWS architecture for image classification using Python/Boto S3 and Java/AWS SDK, enabling efficient processing of 100+ image requests with sub-1 second average processing time.