Prasidh Aggarwal

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EDUCATION

Master of Science in Computer Science   *Aug 2022 - May 2024*
Arizona State University, Tempe, AZ   *GPA: 4/4*

Bachelor of Technology in Electronics and Communications   *Aug 2016 – May 2020*
Manipal Institute of Technology, India   *GPA: 3.89/4*

SKILLS

Programming Languages: Java, Python, HTML, CSS, JavaScript, C++, Bash, SQL
Frameworks and Databases: Spring boot, JUnit, Node.js, React.js, d3.js, MongoDB, MySQL, PostgresSQL, DynamoDB, Redis
Tools: Linux, Git, JIRA, Postman, Jenkins, Docker, Kubernetes, Helm, Maven, Gradle
Certifications: AWS Certified Developer Associate (Credential), AWS Certified Cloud Practitioner (Credential)

PROFESSIONAL EXPERIENCE

Deloitte   **Bangalore, India**
Software Engineer 2   *March 2022 – May 2022*
- Developed and enhanced 80+ REST APIs for Banking-as-a-Service product leveraging Java, Spring boot, and Microservices architecture (MSA) on US banking cores like Mambu, Finxact, and Plaid. Core features included ACH payments, credit card transactions, loan management, event notifications, and transaction fraud detection.
- Designed a microservice for MFA during onboarding, utilizing Twilio and custom authorization. Served 2000+ production users.
- Engineered a fraud detection microservice for credit card transactions; successfully flagging 2500+ fraudulent transactions.
- Accelerated deployment efficiency by 90% for applications by streamlining pipelines using JIRA, Concourse CI, and ArgoCD.
- Integrated AWS Systems Manager and Docker, enabling rolling restarts and automatic property refresh with zero downtime.

Deloitte   **Bangalore, India**
Software Engineer 1   *September 2020 – February 2022*
- Integrated AWS MSK (Managed Kafka) into transaction microservices via event-driven architectures, boosting API response times by 90%. Enabled real-time synchronization across distributed components, ensuring seamless and secure data transactions.
- Launched loan origination and management microservice facilitating streamlined loan applications and refinancing for 5000+ users, using Mambu integration, with 80% reduction in internal API calls.
- Configured a workflow to upload Swagger OpenAPI specifications in YAML format to a repository, facilitating automated deployments to the AWS API Gateway with proxies configured. Reduced manual developer effort of deployments by 80%.
- Collaborated with product teams, designed 50+ UML diagrams, 250+ test cases (JUnit, Mockito) resulting in 90% code coverage.
- Awarded Deloitte Applause award (x5 times) for remarkable firm contribution, shipping 4 project MVPs, and leading cross functional teams to improve overall project efficiency.

PROJECT EXPERIENCE

Pass Genius – Browser Extension | *HTML, CSS, Bootstrap, JavaScript* | Link   *Spring 2024*
- Engineered an extension (available on the chrome store) to generate strong passwords based on user preferences like character length, inclusion of uppercase/lowercase letters, numbers, and symbols, enabling enhanced password security.

Hybrid Cloud Face Recognition Pipeline | *Python, Lambda, S3, Docker* | Link   *Spring 2023*
- Architected a hybrid cloud face recognition pipeline reducing infrastructure costs by 30%; containerized face recognition libraries using Docker, reducing Lambda cold start time by 40% and enabling seamless deployment across AWS and OpenStack.
- Developed a serverless face recognition application on AWS using Python, Lambda, S3, and DynamoDB, reducing costs by 70% compared to AWS EC2; implemented load testing framework to process 100 videos in under 10 minutes during peak loads.

Urban Mobility Analysis Dashboard | *D3.js, Node.js, SQLite* | Link   *Fall 2023*
- Crafted an interactive dashboard with 7 visualizations (grouped bar, horizontal bar, bee-swarm, spatial, etc.) using D3.js and Node.js to analyze urban mobility trends in Ohio, optimizing response times for 15K+ data records; enhanced UX with tooltips and legends.
- Led project planning and development for a 6-member team following Agile methodology, orchestrating biweekly deliverables, and facilitating seamless collaboration across the team.

Scalable Image Classification with AWS Optimization | *Java, Python, S3, SQS, CloudWatch* | Link   *Spring 2023*
- Implemented a scalable AWS architecture for image classification using Python/Boto S3 and Java/AWS SDK, CloudWatch metrics, alarms, Auto-Scaling with step-scaling, enabling sub-1 second processing of 100+ image requests.

Handwritten Digit Classification | *Java, Android, Mobile Development* | Link   *Fall 2022*
- Developed a mobile application for handwritten digit recognition, employing distributed processing with one master smartphone and four slave devices, 50% reduction in image processing time, 75% faster predictions, and a 60% improvement in result accuracy.