Rishabh Agrawal

Software Engineer| rishabh.ag94@outlook.com | (817) 401-5713 | Dallas, Texas

SKILLS

Java, C, Android SDK by Google, Spring boot, AWS services, RESTful APIs, SQL, Git, Eclipse, Jenkins, Kubernetes, Junit, RabbitMQ, NoSQL

WORK EXPERIENCE

Amazon   Sep. 2020 – Present
Software Engineer   Virtual, Texas

- Developed simplified, efficient and scalable backend with UI for live-stream event operations
- Integrated and led the migration of livestreaming service and its package dependencies to comply with the secure and latest versions of Rails, Ruby and AWS service packages, ensuring unit tests to sustain >90% code coverage and trigger automatic rollback during CI/CD
- Developed the feature to emit metrics for the livestreaming event to visualize the data in real-time
- Visualized 20+ metrics real-time, and setup alarm events across global regions in a unified dashboard

Copart   Aug. 2019 – Jun 2020
Software Engineer Co-op   Dallas, Texas

- Decoupled RPG based DMV BILLING system requiring new design and architecture; Developed APIs in Spring Boot and used RabbitMQ to capture Kafka events and trigger WSO2 ESB sequences to handle the event-driven API calls for an external client to internal events
- Developed the new microservice architecture-based check printing API replacing the process from old dot-matrix systems to the new MICR printers, saving Copart annually >$300K in check printing cost
- Developed the architecture for Positive Pay process to incorporate multi-bank support

Transline   Apr. 2019 – Mar. 2020
Software Engineer   Noida, India

- Rebuilt existing native Android client project and implemented best coding practices, fixed leaks and initiated the integration of modern tools into team's development workflow
- Integrated databases, Firebase, notification handling, user authentication, caching to reduce API calls

PROJECTS

- Robotics: (autonomous robots)
  - Developed path planning and motion control to navigate around obstacles and locate target
  - Implemented logic to locate fire and mechanism to extinguish fire using motorized fan
  - Implemented stair climbing/descending mechanism using tank-like tracks wheeled design
- Android Apps: (personal projects)
  - Copy Save: app to capture, persist copied clipboard text and review later, >2000 downloads
  - Text Scan+Translator: app to recognize text from Camera in real-time, 1-click copy & translate
  - Others: Math Quiz app, Wallpapers app using Pixabay for license-free images
- Email-SMS text Classifier: ML Naive Bayes classifier to classify text message as ham/spam
- MeeleMe: Native Android app at hackathon: *HackUTA 2018* that sense the highlighted character on Smash Bros player screen and narrates the stored heavy-attack key-combination for that player
- OpenCharity: A decentralized blockchain application at hackathon *HackDFW 2018* for a public donations for resources in need by shelters around the city

EDUCATION

M.S. in Computer Science, The University of Texas At Arlington   JULY 2020
B.S. in Computer Science, UPTU India   JULY 2016

EXTRA-CURRICULARS

- Active student member at associations: SWE, NSBE and SHPE for school UTA school chapter

Resume | **LinkedIn**: https://www.linkedin.com/in/rishabh-agrawal94 | http://ssrishabh96.github.io