Rishabh Agrawal

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

SKILLS

Java, C, Ruby on Rails, Spring boot, Android SDK by Google, SQL, Git, Eclipse, Kubernetes, Jenkins, Docker, AWS EC2, AWS S3, AWS Lambda, API Gateway, Junit, RabbitMQ

WORK EXPERIENCE

Software Engineer, Amazon.com   SEPT 2020– *PRESENT,* Virtual, Texas

- Work with the internal Amazon Broadcast team to develop and integrate new features in Amazon Livestream and Amazon Live Broadcast services
- Migrate and upgrade the Livestream Event service to a newer Ruby on Rails, including but not limited to removing old dependencies, releasing new packages and upgrading the internal build version, resolving conflicts, performing unit tests, integration testing
- Reduce the overhead and combine the above two services, and architect a single service that can dynamically scale and provision resources for live events and less frequent all-hands event
- Toolchain used: Ruby on Rails, Java, AWS Lambda, API Gateway, internal tools

Software Engineer Co-op/Intern, Copart Inc.,   AUG 2019– JUN 2020, 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, for Bank of America and later updated for all banks

Software Engineer, Transline   APR 2016– MAR 2018, 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
- Utilized Android SDK, Firebase, JavaScript, Ajax, jQuery, and Bootstrap frameworks

PROJECTS

Robotics:

- Self-Driving robot: Programmed autonomous path planning and motion control to navigate around obstacles
- Fire-Extinguisher: Programmed autonomous fire extinguishing mechanism to self-locate, and mitigate fire
- Robot Stair Climber: Design and programmed stair climbing/descending autonomous mechanism
- Utilized C4EV3 API for LEGO robots in C language

Android Apps: (Side projects, using Android Studio and 3rd party libraries)

- Copy Save: stores copied text from the clipboard permanently, >2000 downloads with 3* ratings
- Text Scan+Translator: uses Vision API to recognize text from Camera in real-time, store text & translate
- Others: Tip Calculator, Math Quiz app, Fake Profile Generator, Brightness app, Wallpapers app

Others:

- Email-SMS Spam/Ham Classifier: ML Naive Bayes classifier to classify text message as spam/not-spam
- MeeleMe: Native Android app at hackathon: **HackUTA 2018** that sense the highlighted character on Smash Bros player screen and speaks the heavy-attack key-combination for that player
- OpenCharity: A decentralized web application on blockchain platform at hackathon **HackDFW 2018** for charities and their donations where the data is public decentralized

EDUCATION

M.S. in Computer Science, The University of Texas At Arlington, *GPA 3.5,*   JULY 2020
B.S. in Computer Science, UPTU India, *GPA 70%,*   JULY 2016

EXTRA-CURRICULARS

- Active member at Copart Toastmasters weekly speakers club
- Professional associations and active member at SWE, NSBE and SHPE for school UTA chapter

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