

# Rishabh Agrawal

Software Engineer | rishabh.agrawal@mavs.uta.edu | (817) 401-5713 | Dallas, Texas

## SKILLS

Java, C, Spring boot, Android SDK by Google, SQL, MongoDB, Scrum, Jira, Git, Eclipse, Kubernetes, Jenkins, Docker, AWS, Junit, RabbitMQ, JSON, HTML, JavaScript, CSS

## WORK EXPERIENCE

**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 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
- Worked on migration of existing codebase into microservices Architecture using Rest APIs, Spring boot, Spring Cloud and design solutions with the ability to hot deploy releases/patches for max server up-time

**Software Engineer**, TransLine Infra,

Jan 2017– Mar 2018, Noida, India

- Rebuilt existing 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
- Became effective advocate/bridge between Design and Dev team to have better requirement understanding

**Software Engineer**, TransLine Infra,

Apr 2016– Jan 2017, Noida, India

- Performed the product stack design and development of deliverable milestones
- Provided support on old projects, identified, diagnosed, and fixed issues in production
- Utilized HTML5, CSS3, 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 3<sup>rd</sup> 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