

# Rishabh Agrawal

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

## SKILLS

Core Java, C, Java Spring boot, Android SDK by Google, Python, JavaScript, SQL, HTML/CSS/JavaScript, Kubernetes, AWS, MariaDB, Scrum, Git, Jenkins, NoSQL, JUnit, RabbitMQ

## WORK EXPERIENCE

**Software Engineer Intern**, Copart Inc., Aug 2019– Present, Dallas, Texas

- 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 and low-level design for check positive pay process, for Bank of America
- Developed the WSO2 driven ESB using CQRS design pattern using RabbitMQ for payment transactions
- Worked on migration of existing codebase into microservices Architecture using Rest APIs, Spring boot, Spring Cloud and designed solutions with ability to hot deploy releases/patches for max server up-time
- Worked in an agile environment, collaborating with business and product teams in story grooming, reviewing story/acceptance criteria and performance metrics

**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 stack product design and development of deliverable milestones
- Provided support of old projects, fixed issues such as: broken links, inconsistency in design
- Utilized HTML5, CSS3, JavaScript, Ajax, jQuery, and Bootstrap frameworks

## PROJECTS

### Robotics:

- Self-Driving robot: Programmed path planning and motion control to navigate around obstacles
- Fire-Extinguisher: Programmed the fire extinguishing mechanism in Lego robot to locate and mitigate fire
- Stair Climber: Designed and programmed Lego robot for autonomous stair climbing and descending
- 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: 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***, University of Texas At Arlington, GPA 3.5

May 2020

***B.S. in Computer Science***, UPTU India, GPA 70%

July 2016

## EXTRA-CURRICULARS

- Active member at Toastmasters speaker club
- Professional associations: active member of local school clubs SWE, NSBE and SHPE