

# RISHABH SWARNKAR

✉ rswarn2@illinois.edu  
🌐 rishabhswarnkar.github.io  
☎ (408) 242-1998

in rishabh-swarnkar

## EDUCATION

University of Illinois at Urbana-Champaign  
B.S. Computer Science and Mathematics 2020

## SKILLS

**LANGUAGES:** Java, C++, Python, JavaScript, R, C#

**TECHNOLOGIES AND FRAMEWORKS:**

AWS Platforms (Lambda, CloudWatch, EC2, RDS, SNS),  
Spring Boot, MySQL, Hibernate, Android, Unity,  
Google Firebase, Jenkins, Cassandra, Angular

**RELEVANT COURSEWORK:**

Digital Product Management,  
Introduction to Data Science, Virtual Reality,  
Elements of Game Design,  
Algorithms and Models of Computation

## PROJECTS

### GaanaGuru

- Designed and developed an Android App allowing enthusiasts of Indian Classical Music to contribute to a growing database of *raagas* (which compose the structure for this music genre).
- Provided framework for adding and recording particular raagas, to help individuals learn without needing to find a private teacher.
- Supported backend for application with Google Firebase (primarily using Firebase's Authentication and Storage modules).

### Mesh++

Jan. 2017 to June 2017

- Wrote Python scripts to parse data from wireless nodes' mesh-based connectivity (i.e. times of connections/disconnections, MAC addresses of connected devices).
- Secured 2nd place at Cozad New Venture Competition, a competition for student-run startups. Received over \$10,000 in prize money for future funding and development.

## EMPLOYMENT

### Tesla · Fremont, CA

*Applications Engineering Intern* · Aug. 2019 to Dec. 2019

- Developed a ReactJS tool to update vehicle information for over 90% of Tesla's products.

*Product Management Intern* · Jan. 2020 to Apr. 2020

- Worked on redesign for an internal product to facilitate order operations.

### Capital One · Champaign, IL

*Full-Stack Development Intern* · May 2018 to Aug. 2019

- Built an AngularJS application to model algorithms detecting anomalies through internal data streams.
- Developed a full-stack application with ReactJS, Flask, and DynamoDB that facilitates connecting microservices across AWS for non-technical users.

*Platform Engineering Intern* · Aug. 2017 to May 2018

- Deployed Python functions to alert development teams when oversized EC2 or RDS instances are created through AWS Lambda.
- Reduced server infrastructure costs by sending custodian alerts to both DevOps and the respective team.

### Allstate (Esurance) · San Francisco, CA

*Data Engineering Intern* · May 2018 to Aug. 2018

- Helped develop a cloud-based, centralized platform (with Java and NoSQL frameworks) to improve internal business team access to customer data.
- Built an API to facilitate customer authentication and registration with services based on specific HTTP requests and parameters.
- Generated tables to store customer data in MySQL and tested all endpoints with Postman and Hibernate.

### Replicon, Inc. · Redwood City, CA

*Mobile Development Intern* · May 2017 to Aug. 2017

- Enhanced employee clock-in software by creating a face recognition app using OpenCV libraries, primarily utilizing Eigenfaces algorithms.
- Developed an improved system of push notifications for clients, with approval actions for requested timesheets and expenses.
- Built a drawer of app shortcuts, enabling users to access frequently used functions with a click.