

RISHABH SWARNKAR

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Education

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

Skills

LANGUAGES

Java
JavaScript
Python
C++
R
C#
HTML/CSS

TECHNOLOGIES AND FRAMEWORKS

AWS Platforms (Lambda, CloudWatch, EC2, RDS, SNS)
ReactJS
Hibernate
Android
Google Firebase
JIRA
Confluence
MySQL
Angular
Jenkins
Scrum

RELEVANT COURSEWORK

Introduction to Data Science
Algorithms and Models of Computation
Compilers and Programming Languages
Virtual Reality
Computer Architecture

Awards

MATLAB Prize (Top 8%) - AoCMM Internationals
Association of Computational & Mathematical Modeling

Sangeet Madhyama - Associate's Degree with Honors
Gandharva Mahavidyala
Institute of Classical Music

Employment

Tesla

Applications Engineering Intern

Fremont, CA

Aug. 2019 to May 2020

- Developed a ReactJS tool to update vehicle information for over 90% of Tesla's products.
- Deployed improvements to internal tools in order to optimize customer experience.

Technical Program Management Intern

Nov. 2019 to May 2020

- Worked on redesign for an internal product to facilitate order operations.
- Facilitated scrum and runbook (release) meetings among software engineers.

Capital One

Full-Stack Development Intern

Champaign, IL

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)

Data Engineering Intern

San Francisco, CA

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.

Mobile Development Intern

Redwood City, CA

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.

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++

- 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.