# Mehul Shinde

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## Objective

Seeking a position as a Computer/Software Engineer appropriating exceptional engineering skills, abilities, and experiences gained through relevant education, internships and projects to offer to the ongoing success of the organization.

## Education

**Iowa State University** B.S. Computer Engineering, May '19

## Skills

- Operating Systems: Linux, Windows, ROS.
- Web: JavaScript, HTML, Node, AngularJS, React, Polymer
- Programming Languages: Java, Python, C, C#
- Mobile Development: Android, Ionic, iOS
- Back-end Frameworks: Spring, Apache Kafka, RabbitMQ
- Database: SQL, JDBC, Neo4J, H2
- Version Control: Git, Subversion

## Professional Experience

### Software Engineer Intern, Copart Inc., Fall 2019

- Developed back-end Java and Spring application for Accounting and Revenue department.
- Designed and implemented a proof-of-concept for Batch Data Flow system using various message brokers
- The new Batch Data Flow system reduced the number of request queues from around 200 to 1.

```
Java, Spring, Maven, Apache Kafka,
RabbitMQ, H2, JDBC, SQL, JIRA, Swagger
```

### Application Developer, College of Veterinary Medicine, Iowa State University, Spring 2019

- Developed and deployed a cross-platform mobile app for Canine Anatomy students
- Implemented file caching and storage system to cache files and interactive modules to reduce 80% API calls.

```
Ionic, HTML, TypeScript, SCSS, AJAX,
JQUERY, Angular, Node
```

### Information Technology Intern- FBL Financials Inc., Fall 2018

- Developed a client facing cross-platform mobile application in an Agile based team environment
- Programmed security check procedures in the account authentication of the mobile app.
- Implemented a server-side caching system that reduced 90% API calls per day
- Attended Innovation team meetings and proof-of-concept demos in the company.

```
JavaScript, AngularJS, Ionic, NodeJS,
Sharepoint, C#, .NET, ULTI PRO
```

### Research Assistant-Computer Engineering Department, Iowa State University, Fall'18

- Developing a solution framework to enable lineage aware data management.

```
Spark, Gem5, Pig
```

### Software Development Intern- RenterGate, Summer 2018

- Developed a rental-property management web-application following Agile practices
- Programmed announcement sorting feature that would sort users as desired by the admin to publish an announcement to.
- Designed and implemented a message chat feature in the tenant and landlord portal
- Wrote an auto-generating email system for account and payment activity email notification

```
NodeJS, Polymer, HTML, Firebase
```

### Android Developer- Agronomy Department, Iowa State University, Fall 2017

- Developed and deployed an android application, SmartFarmer, for farmers to track the expenses and collect data for research.
- Implemented local database for offline use.

```
Java, SQL, SQLite
```

### Software Development Intern- NREM Department, Iowa State University, Summer 2017

- Developed and deployed a version 3.0 of 'PEWI' an open source simulation web application for watersheds
- Programmed a backward-compatibility feature for the files from previous versions of the simulator
- Implemented a report generation function for a customizable report of the users' simulation.

```
JavaScript, HTML, CSS, JSON
```

### Research Assistant-IMSE Department, Iowa State University, Spring 2017 (sites.google.com/site/ifhnetwork)

- Developed a mobile application that helped participants of local food hub network to track products in delivery from producers.
- Wrote an algorithm to generate node to node routing of the flow of products in a supply chain from available data.

```
JavaScript, GoogleApps Script, ArcGIS
```

## Projects

- **Drone Simulator (Team Lead)**: Team lead for development of a drone simulator web-application using ROS, Gazebo, ReactJS, Blender/Python and C++.
- **Android Game development (Honorable mention)**: Developed a multiplayer 2d android game in a team of 4 as a part of software development project course. Acted as the Technical Lead of the team. Used Java, XML, libGDx, PHP and MySQL to handle server client connections, database and game play.
- **Command line in chat box, HackISU Fall 2016 (Winners):** Used GForge API to implement a command line feature to perform any operations which could be done on the UI. Used Python (Learned on the spot).

## Leadership and Community activities

- Cardinal Key Honor 2019 (Highest Honor at Iowa State University).
- College of Engineering Dean's List Fall 2018.
- President- Indian Students' Association (2nd largest student organization at ISU, 400 participants).