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
Carnegie Mellon University M.S. Software Engineering, May'21

Skills

- Operating Systems: Linux, Windows, ROS.
- Web Development: JavaScript, HTML, Node, AngularJS, React, Polymer
- Programming Languages: Java, Python, C, C#
- Mobile Development: iOS, Android, Ionic
- 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 of 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, 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.

```
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'17

- 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.
- **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).