

# Mehul Shinde

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## Education

**Carnegie Mellon University** Master of Science in Software Engineering

**Expected Graduation May 2021**

GPA: 3.64/4.00

**Iowa State University** Bachelor of Science in Computer Engineering

**May 2019**

Cardinal Key Honor, College of Engineering Dean's List 2018

## Skills

*Java, JavaScript, Python, Spring Boot, TypeScript, Docker, Node, React, HTML5, CSS3, REST, Hibernate, JSON, Maven, Play 2.0, SQL, Cypress, Jest, XML, jQuery, AWS, Serverless, Git, MongoDB, Heroku, Figma, JIRA.*

## Work Experience

**Software Engineer Intern | Copart Inc. – Dallas, TX**

**August – December 2019**

- Developed REST APIs and micro-services in *Java, Spring*, and *Hibernate* for a \$10M pipeline of the Accounting team.
- Designed and implemented proof-of-concept for Batch Data Processing with *Apache Kafka & RabbitMQ*.
- Improved number of request queues from 200 to 1 through Batch Data Processing tools and message brokers.

**Information Technology Intern | Farm Bureau Financial Services – Des Moines, IA**

**August – December 2018**

- Built a client-facing cross-platform mobile application using *Ionic, TypeScript, Angular*, and *C#*.
- Accomplished security check features to add 2 factor and 3 factor user account authentication process.
- Executed server-side caching to reduce REST API calls by 90%.

**Software Development Intern | Renter Gate – Ames, IA**

**May – August 2018**

- Created a web application for a rental-property management start-up utilizing *HTML5, CSS3, Polymer, Node*, and *Firebase*.
- Devised an announcement feature to notify intended audience of an announcement.
- Programmed an automated email generation system for account activities.

**Software Development Intern | LESEM Lab, Iowa State University – Ames, IA**

**May – August 2017**

- Wrote software for an open-source simulation web-app leveraging the Web Stack (*JavaScript, HTML5, CSS3*).
- Constructed a backward compatibility feature to support 2 older versions using data modeling techniques *JSON* and *CSV*.
- Implemented a report generating functionality to collect simulation data and present it as reports.

## Project Experience

**COVID Support App (Software Requirement & Interaction Design, CMU)**

**August 2020 – December 2020**

- Collaborating in a team of 5 to design and build a *React* mobile app following UI/UX and Interaction Design processes (A/B Testing, Usability Test, etc.) and Requirements Engineering processes (Design workshop, need elicitation, etc.)

**Recipe Wizard (Start-up - Maai)**

**June – August 2020**

- Individually built a web app for a start-up applying serverless-architecture, Object-Oriented Analysis, and other software design principles; and tools such as *TypeScript, React, AWS Lambda, DynamoDB, AWS Amplify*.

**Emergency Social Network (Foundation of Software Engineering course, CMU)**

**January – May 2020**

- Worked in a team of 4 to deliver a *web-application* incorporating foundational concepts of software engineering such as *REST API, SCRUM, OOA, Integration testing, E2E testing, CI/CD, Design Principles, Test Driven Development* etc.
- Performed end to end testing using *Cypress*, and unit & integration testing via *Jest*. Also utilized plain *JavaScript ES6, MongoDB, Mongoose*, and *Express*.

**Emergency Social Network+ (Software Engineering Methods course, CMU)**

**January – May 2020**

- Participated in a team of 5 and a community of practice to construct a *React* and *TypeScript* application following Agile Development, *SCRUM, LeSS*, along with writing unit-tests, *CI/CD, REST API*, and utilizing tools such as *git & Jira*.

## Leadership Experience

- **Research Assistant (CMU)**: Conducting Independent research on the topic 'Data-driven usability evaluation.'
- **Peer Career Consultant (CMU-SV)**: Worked along with 4 students to advise and help students with navigating job search.
- **Teaching Assistant (CMU)**: Conducted recitations and assisted instructor for the Software Engineering Methods course.
- **President, Indian Students' Association (ISU)**: Presided over the second-largest Student Organization at ISU (400 members).
- **Research Assistant (ISU)**: Collaborated in research projects in the Industrial Engineering and the Computer Engineering department at ISU.