

# Mrigank Doshy

## Software Engineer

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## Experience

### Software Engineer II @ KCF Technologies

August 2021 - Present

- Develop, ship, and maintain major features of KCF's comprehensive machine health web application using React, CSS / Sass, and C#
- Build an issue management and remediation system with a streamlined process for capturing issues, facilitating conversations, and implementing recommended actions
- Lead a team of developers to build a new cross-platform mobile app using React Native with a focus on issue remediation and hardware management
- Core member of a small select team that's building an extensive Design System / Component Library and coherent user experiences across multiple apps

### Software Engineer - Capstone Project @ Volvo

January 2021 - May 2021

- Explored an automated link using Creopyson Python library, to convert 2D schematics to 3D CAD Models in CREO: Parametric, eliminating the need to manually rebuild a 3D model for any change in the 2D schematic
- Developed an algorithm to suggest a network path / route for different cables, fuel lines and components depending on the space available in a given area of a truck
- Helped engineers reroute cables so that the wires take the most efficient paths, hence reducing the repetitive and time consuming process currently employed

### Co-Founder & Software Engineer @ Mule

May 2019 - July 2021

- Developed and deployed an iOS and Android app using Flutter that enables students to be one another's service providers (100+ users)
- Designed and developed the UI/UX with MobX state-management library, Node.js on the backend and real-time database using MongoDB
- Implemented geolocation and routing with a cluster map of places and user locations using Google Maps Web Services and notifications using Firebase
- Built a registration and authentication system using Dio (http client package) and applied dependency injection in the client to request and match with other users

### Computational Finance Research Intern @ Eberly College of Sciences

May 2019 - September 2019

- Developed an object oriented approach to compute the prices of American and European Call/Put options using different pricing methods
- Increased performance of Monte Carlo Simulations by over 70% using High Performance Computing Techniques of Parallel Processing in OpenMP and MPI
- Built a MPI Cluster to run the programs on a network of machines using multiple cores to increase performance

## Skills

### Programming Languages

TypeScript, JavaScript (ES10), Dart, HTML, CSS / Sass, Python, C, C++, C#, Java, SQL

### Libraries & Frameworks

React, Flutter, React Native, Node.js, .NET Core

### Tools & Platforms

Git, Google Cloud, Azure DevOps, Expo, Firebase, Heroku, Netlify, Vercel, Docker

### Design

Figma, XD, Illustrator, InVision

## Education

### The Pennsylvania State University

August 2017 - May 2021

Bachelor of Science - Computer Science  
Bachelor of Science - Mathematics

## Projects

### App Clones

Building clones of design focused apps such as Spotify, Netflix, Instagram, Twitter, Snapchat etc. using Flutter

### Astronutz

Website for Astronutz - a collection of 10,000 nutty NFTs. Built using React + Chakra UI and hosted with Netlify

## Certifications

Intel: Introduction to OpenMP

IBM: Blockchain Foundation Developer

Ethereum: Building Blockchain  
Decentralized Apps (DApps)