

Mrigank Doshy

Software Engineer

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Experience

Software Engineer @ KCF Technologies

August 2021 - Present

- Develop and maintain major features of KCF's comprehensive machine health web app using React, CSS / Sass and C#
- Build custom styled components, UI elements and hooks for various pages, modals and tables throughout the software
- Create and implement RESTful APIs using Entity Framework and Dapper to get, update and export multiple hardware's information
- Communicate and collaborate with multi-disciplinary teams of engineers, designers and product managers to ensure thoughtful and coherent user experiences

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, Dart, Python, C, C++, C#, Java, HTML, CSS / Sass, SQL, MATLAB

Libraries & Frameworks

Flutter, React, React Native, Node.js, .NET Core, NumPy, Scikit-learn, SciPy, Pandas, Matplotlib, TensorFlow

Tools & Platforms

Git, Google Cloud Platform, AWS, Azure DevOps, Firebase, Expo, Heroku, Docker

Design

XD, InVision, Illustrator, FramerX

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

Non-Linear Classifiers

Implement Boosted Decision Trees, Support Vector Machines and Random Forests to classify data from LibSVM

Certifications & Licenses

Intel: Introduction to OpenMP

IBM: Blockchain Foundation Developer

Ethereum: Building Blockchain Decentralized Apps (DApps)