Sreenivas Krishna Nair

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Education

University of Wisconsin-Madison
B.S. Computer Engineering, expected May 2022
B.S. Computer Science, expected May 2022
- **Major GPA 3.75/4.0,** cumulative GPA 3.67/4.0
- Dean's Honors List

Stanford University
Summer Session, summer 2019
- Course work in linear Algebra and multivariable calculus
- Silicon Valley Innovation Academy

Professional Experience and Projects

Wisconsin Robotics
Member of AI Team
Implemented Computer vision algorithm and High-Level algorithm in ROS (robot operating System) for rover competing in the university Rover competition. Algorithms help rover in obstacle detection, path finding and image recognition.

Social Network
Full stack web platform that models social media platforms. Uses the MERN stack model to organize the platform. Full social media user experience with user to user chat, cookies, sessions, user to global feed, restrictive access, level 6 security, data protection, location tracking, etc. (under dev)

Lane Detection
Algorithm for detecting lanes in any image or video. Uses python and OpenCV library to achieve functionality. Algorithm breaks down each frame into greyscale, smoothens image, uses Hough Transforms for rendering edges and averages out and demarcates lanes.

Farm Data – Analyzer
Java application for conducting analysis on the milk data for several farms across the US. The application takes in milk production data of several farms as a CSV file and conducts analytics. It displays yield, tracks change across time and generates various reports and graphs for data analytics.

Personal Website
Personal Portfolio website for displaying projects and provide an easy way to contact me. Implemented a static website using Next.js, Vercel and Prismic. GraphQl used to retrieve data from Prismic. Used SCSS to implement visual effects. https://www.sreeuwmadison.com

Skills

Programming Languages: Java (proficient), JavaScript (proficient), python (proficient), C, C++, SQL, R, Dart, LC3, Swift, Verilog.
Frameworks: React.js, Express, Node, Next.js, GraphQL, ROS (Robot Operating System in C), MATLAB, Android Visual Studio, Flutter, Solid Works, Octave, Quartus, Kubernetes/docker(intro)
Databases: MongoDB (proficient), MySQL(introductory)
Platforms: Heroku, Vercel, Postman, NPM, Gatsby, AWS, Azure, Coder (Enterprise), Digital Ocean

Certifications

SQL, Stanford University (Lagunita)
The Complete 2020 Web Development Course (Udemy)
The Complete Strapi Course (Udemy)
JPMorgan Chase Software Engineering Virtual Experience (Forage)
Deep Learning Specialization, Stanford University (Andrew NG) expected-Dec2020