# 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

**Dell Technologies** **Intern:** Summer, 2021
**Software Engineering Intern, Campus Ambassador**
Intern: Worked alongside Dell associates in an Agile Kanban workflow setting in the Shared Component Office (SCO) of the Infrastructure Solutions Group (ISG). Built the JIRA Integration infrastructure for the SCO portal. It drastically reduced manual labor, eliminated data inconsistencies, and sped up Shared Intellectual Property (SIP) identification throughout DELL/EMC. Got real world Git/Gerrit experience and learned Functional programming and unbundled databases in a limited time frame.
Ambassador: Represented Dell at UW–Madison as the Ambassador. Organized campus events on behalf of Dell.

**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), Clojure (proficient), C (proficient), C++, SQL, R, Dart, LC3, Swift, Verilog.
**Frameworks:** GIT, Gerrit Code review, 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), CruxDB (unbundled database), MySQL(introductory)
**Platforms:** WeKAN, JIRA, Confluence, Heroku, Vercel, Postman, NPM, Gatsby, AWS, Azure, 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-Dec2021