

# JAIKRISHNA (JAI) V. RAGHAVAN

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## EDUCATION

### University of Maryland

B.S. Computer Science, Minor in Linguistics

GPA: 3.72

Honors College, University Honors

College Park, MD

May 2025

## TECHNICAL EXPERIENCE

### Senseonics

Software Engineering Intern - PC Apps

Germantown, MD

Jun 2024 - Aug 2024

- Tested and resolved errors in **multi-threaded .NET applications** to reduce failure rate by 20%.
- Developed an XML-configurable User Interface for automating quality control procedures at production sites.
- Worked in an agile development environment for stakeholders in process engineering and software quality
- Optimized validation procedures in playlist loading scripts to reduce validation errors by 25%.

### Senseonics

Software Engineering Intern - PC Apps

Germantown, MD

Jun 2023 - Aug 2023

- Developed the frontend of a Quality Control automation app using **C#, Visual Studio, and .NET**
- Created several interactive forms to process user input and execute commands from a .CSV file.
- Applied principles of **object-oriented design** to encapsulate UI components.

### Senseonics

Process Development Intern

Germantown, MD

Jun 2022 - Jul 2022

- Refactored an **ASP.NET** web application to generate a .CSV file with live data for over 10,000 transmitters.
- Migrated transmitter firmware version data from a **Microsoft SQL Server** to the application.
- Enabled categorization of data by product type to improve process development data analytics.

## SKILLS AND COURSEWORK

Programming:	Java, C#, C++, C, JavaScript, TypeScript, Python, Ruby, OCaml, Haskell, Kotlin
Tools/Frameworks:	.NET, Node.js, Express, MongoDB, React.js, Bootstrap, Git, Linux, Jira, Docker
Coursework:	Advanced Data Structures, Compilers, Computer & Network Security, Computer Systems Architecture, Mobile App Development

## PROJECTS

### Fantasy Football Data Lookup - MongoDB, Express, React.js, Node.js, Bootstrap

- Developed a full stack web application that allows users to search for fantasy football data.
- Accessed NFL player game and season usage data using ESPN's **REST API** endpoint.
- Leveraged **Node.js** and **Express** for backend routing and **MongoDB** to store player data.
- Designed functional components using **React.js** and **Bootstrap** to retrieve and display data in the frontend.

### MiniDafny - Haskell

- Implemented a subset of Dafny, a verification-based programming language.
- Created an **applicative-based parser** to generate an abstract syntax tree from input text.
- Generated **verification conditions** for each statement by calculating the weakest preconditions according to Hoare Logic rules.
- Passed verification conditions to Z3, a Microsoft SMT solver, to verify programs.

## HONORS AND DISTINCTIONS

### National Merit Scholarship

National Merit Scholarship Corporation  
Sep 2021 - May 2025

### Dean's List

University of Maryland  
Spring 2022 - Present

### Alpha Lambda Delta Honor Society

University of Maryland  
Oct 2022 - Present