

Viswa Vijeth Ramesh

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EDUCATION

Rutgers University - (School of Engineering + School of Arts and Sciences)

New Brunswick, New Jersey

B.S. in Electrical & Computer Engineering, Minor in Mathematics

Sep 2018 - May 2022

- **Concentration:** Computer Engineering
- **Coursework:** Computer Architecture, Assembly, Digital System Design, Network Security

Major GPA: 3.96/4.00

B.S. in Computer Science, Minor in Economics (Dual Degree)

Sep 2018 - May 2022

- **Concentration:** Computer and Software Systems
- **Coursework:** Data Structures, Algorithms, Software Engineering, Databases, Data Science

Major GPA: 3.82/4.00

EXPERIENCE

Mind Computing

East Thetford, Vermont

Software Engineering Intern

Dec 2021 - Mar 2022

- Worked with an **agile** squad in standups, sprints, retrospectives, and user story creations for a Consult Tool Box
- Wrote automation test scripts using **JavaScript** and formulated queries to fetch data from a **PostgreSQL** database
- Worked closely with the Quality Assurance team to modify and validate automation test scripts using **Cypress.io**
- Participated in screen share sessions and code reviews to push robust code to development/test environments
- Performed manual tests for a handful of **APIs** and validated acceptance criteria according to the **Gherkin** syntax
- Shadowed senior engineers and troubleshoot issues during deployment on a **GitLab CI/CD** pipeline and **Jenkins**

PROJECTS

Integrated Driving Assistant (Current Capstone project)

- Working with a team of aspiring engineers on developing a smart driving assistant device using a Raspberry Pi-4
- Utilizing a touchscreen, cameras, and OBD sensors to collect information and alert the driver of potential hazards
- Developing an algorithm using the OpenCV and Dlib libraries on Python to track the eye movements of the driver

E-Trade Platform (Javascript, MySQL, HTML, CSS)

- Designed an online platform where users could register for an account to view, buy, sell and bid on various items
- Implemented an auto-bid max feature that automatically bids on items based on a specific increment and limit
- Hosted the platform using Apache Tomcat and managed data storage/retrieval in a local database using MySQL

Discord Bot (Python, Discord API)

- Implemented a text chatbot that extracts and posts pictures, GIFs, threads, memes from subreddits into Discord
- Integrated message embeds and mini-games in text channels that launch in response to specific text commands

Parallel Graph Matcher (C++, CUDA)

- Modified and utilized a Greedy handshaking-based algorithm to match directed and undirected graphs efficiently
- Allocated GPU memory to run multiple CUDA kernels in parallel and achieved drastically reduced execution times

SKILLS

- **Technical:** Microsoft Office Suite, Google Workspace, Adobe Suite, GitHub | **OS:** macOS, Windows, iOS, Android
- **Languages:** Fluent in English and Tamil, Conversant in Spanish and Hindi | **IDE:** VSCode, Vim, Anaconda, IntelliJ
- **Coding:** Python, C++, C, Java, JavaScript, MATLAB | **Databases:** MySQL | **Web:** HTML, CSS | **Assembly:** RISC-V, x86

EXTRACURRICULARS

- **N2E Python Club:** Learned about various data visualization libraries in Python (Pandas, Seaborn, Matplotlib)
- **IEEE ML/AI Club:** Comprehended the basics of building ML/AI models in Python (TensorFlow, NumPy, SciPy)