

# Viswa Vijeth Ramesh

✉ vishvijeth@gmail.com · ☎ 908-327-5513 · 🔗 linkedin.com/in/vishvijeth · 🐙 github.com/vishvijeth · 🌐 vishvijeth.com

## EDUCATION

**Rutgers University, (School of Engineering + School of Arts and Sciences)**

**New Brunswick, New Jersey**

*B.S. in Electrical & Computer Engineering | B.S. in Computer Science (Dual Degree)*

*Sep 2018 - May 2022*

- **Minors:** Mathematics and Economics Major GPA: 3.9/4.0
- **Achievements:** Dean's List Scholar, SoE Scholarship Awardee, On Track for Highest Honors
- **Relevant Coursework:** Data Structures, Algorithms, Databases, Data Science, Computer Architecture, Assembly, Digital System Design, Communication Systems, Network Security, Circuit Analysis, Operating Systems, Capstone

## 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 drivers of potential hazards
- Developing an algorithm using the OpenCV and Dlib libraries on Python to track the eye movements of drivers

**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)
- **Interests/Hobbies:** Competitive Swimming, Calisthenics, Sitcoms, Virtual Reality Games, Autonomous Vehicles