

Viswa Vijeth

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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 | B.S. in Computer Science (Dual Degree)

Sep 2018 - May 2022

- **Minors:** Mathematics | Economics **MGPA:** 3.97/4.00
- **Achievements:** Highest Honors (Summa Cum Laude), SoE Scholarship Awardee, Dean's List **CGPA:** 3.72/4.00
- **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 in **JavaScript** and formulated queries to retrieve data from a **PostgreSQL** database
- Worked closely with the Quality Assurance team to modify and validate automation test scripts using **Cypress**
- 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
- Assisted senior engineers in troubleshooting issues during deployment on a **GitLab CI/CD** pipeline and **Jenkins**

PROJECTS

Integrated Driving Assistant

- Worked with a team of aspiring engineers on developing a smart driving assistant device using a Raspberry Pi-4B
- Developed an algorithm using the **OpenCV** and **Dlib** libraries on **Python** to track the eye movements of drivers
- Utilized a touchscreen, cameras, and OBD II sensors to collect information and alert drivers of potential hazards

E-Trade Platform

- Designed an online platform using **HTML/CSS** and **JavaScript** where users could register and trade various items
- Hosted the platform using **Apache Tomcat** and queried data across 35+ tables in a **MySQL** database using **SQL**
- Implemented an auto-bid max feature that automatically bids on items based on a specific increment and limit

Discord Bot

- Designed and hosted a chatbot using **Python** that extracts and posts media from Reddit into 10+ discord servers
- Utilized Discord's **API** to implement message embeds and fun mini-games into text channels, used by 50+ users

GPU Graph Matcher

- Modified and used a greedy handshaking-based algorithm in **C++** to match directed/undirected graphs efficiently
- Allocated GPU memory to execute multiple **CUDA** kernels in parallel and reduced the overall runtime by 150%

SKILLS

- **Tools:** Microsoft Office Suite, Google Workspace, Adobe Cloud, GitHub | **OS:** macOS, iOS, Windows, Android
- **Languages:** Fluent in English and Tamil, Conversant in Spanish and Hindi | **IDE:** VSCode, Anaconda, IntelliJ, Vim
- **Programming:** Python, C++, C, Java, JS, MATLAB | **Database:** SQL | **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