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 — **Major GPA:** 3.9/4.0
- **Achievements:** Dean's List Scholar, SoE Scholarship Awardee, On Track for Highest Honors — **CGPA:** 3.7/4.0
- **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 (Current Capstone Project)

- Working with a team of aspiring engineers on developing a smart driving assistant device using a Raspberry Pi-4B
- Developing an algorithm using the **OpenCV** and **Dlib** libraries on **Python** to track the eye movements of drivers
- Utilizing a touchscreen, cameras, and OBD2 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