Long Huynh

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Current Objective

Highly motivated Junior in Computer Science that is interested in software engineering or cybersecurity; looking for an internship or entry-level opportunity that will allow me to utilize my problem-solving skills and attention to detail to further develop my abilities and gain experiences in the hi-tech industries so that I can focus on my educational goals and future career.

Education

- **George Mason University** — Fairfax, Virginia
  Bachelor of Science - Computer Science; GPA: 3.78 — *Dec 2022*
  Relevant Courses: *Operating Systems, Data Structures and Algorithms, Analysis Of Algorithms, Computer Systems and Programming, Computer Systems Architecture, Data Mining*
- **Norther Virginia Community College** — Annandale, Virginia
  Associate of Science - Computer Science — *May 2020*

Skills Summary

- **Advanced**: C, Java (3 Years), HTML, CSS, JavaScript, React.js (1 year)
- **Experienced**: Intermediate knowledge Next.js, Tailwind CSS.
- **Platforms**: Linux (2 Years), Web, Windows
- **Soft Skills**: Time Management, Communication, Teamwork, Problem-solving
- **Bilingual**: English and Vietnamese

Experience

- **George Mason University** — Remote
  Teaching Assistant (Part-time) — *Jan 2021 - May 2021*
  - **Assist Building Projects**: Supported professor by reading and reviewing project descriptions, writing project solutions, and supporting breakout sessions.
  - **Support Students**: Answered students' questions on Piazza and guided them through projects with Data Structures knowledge.

Projects

Sorting Visualization *Work in progress* ***(React.js, JavaScript, HTML, CSS).***
- A web application using React.js, JavaScript, HTML, and CSS that visualizes sorting algorithms
- Implemented popular sorting algorithms like Bubble Sort, Merge Sort, and Quick Sort to showcase their behavior in real-time.
- Designed an intuitive user interface using HTML and CSS that allows users to interact with the application and adjust parameters to see the algorithms in action.

Discord Weather Bot ***(Node.js, JavaScript, Chart.js, API, HTML, CSS, Surge, Heroku.)***
- Automated bot for Discord server that can return weather reports, 1-week forecast visual chart, and air quality for a specific city using API call.
- Created a responsive website to host invitations for the bot.
- Collaborated with other students, whose contact information can be found in the project's GitHub.

Quizzical ***(Node.js, React.js, JavaScript, Rest API, HTML, CSS, Vercel)***
- A web application that allows users to test their knowledge by answering trivia questions using Rest API to fetch questions from an external API
- App built using React.js, HTML, and CSS to provide an interactive and responsive user interface.
- Deployed the project using Vercel to provide a reliable and scalable infrastructure.

Drug Prediction ***(Python.)***
- Developed predictive models that can determine given a drug compound whether it is active (1) or not (0).
- Processed the given imbalance training data by creating a sparse matrix and made the data cleaner by using dimensionality reduction methods to reduce the number of features of the data, over-sampling, and under-sampling.
- Tried different classifiers and ranked them based on F1-score resulting from cross-validation testing.

Three Way Intersection ***(C, Vim, Linux.)***
- Implemented own locks mechanism (Synchronization Primitive) used in Operating System.
- Used the implemented locks mechanism to create priorities for different vehicles approaching the intersection and solve the deadlock situation when multiple vehicles trying to turn the same certain direction.

School Involvement & Social Activities

- Started on high school soccer varsity team as a left midfielder (Anaheim Discovery Christian School).
- Swimming: was in the U12 talent team managed by Hai Quan swimming pool in Ho Chi Minh City (Vietnam).