Veronica Thach

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EDUCATION

George Mason University, Fairfax, VA   Expected Graduation: Dec 2025
B.S. Computer Science, GPA: 3.91; Dean's List 2022-2024
Relevant Coursework: Data Structures/Algorithms, Computer Systems, Data Mining, Database Concepts, OOP

TECHNICAL SKILLS & CERTIFICATES

Programming Languages: Java, Python, C, HTML, CSS, R, JavaScript, SQL

EXPERIENCE

George Mason University Department of Computer Science, **Fairfax VA**   Aug 2023 – Present
Undergraduate Teaching Assistant

- Peer mentored through assisting students with projects, resulting in higher scores on projects by conducting code reviews, debugging, and forming algorithms.
- Participated in a team of fellow teaching assistants to develop ways to help students learn essential programming skills.

Commonwealth Cyber Initiative, Fairfax, VA   Sep 2024 – Present
CCI Scholar, Undergrad Research Assistant @ George Mason University

- Conducting research on a generative approach to side channel analysis-based anomaly detection of electromagnetic signals from embedded devices.
- Assisting with the experimentation of various models such as Generative Artificial Networks (GANs), State Space Models, ResGans, etc in efforts to find a more accurate model for generating synthetic electromagnetic signals.

HeadStarter AI, Remote   Jul 2024 – Sep 2024
Software Engineer Fellow

- Worked on an AI customer support chatbot by using JS and Python's PyTorch library. Implemented basic NLP practices and data training.

PROJECTS

Grade Calculator Website   Jun 2024

- Designed and implemented a full stack website with a team under Agile workflow using JavaScript, SQL, PHP, HTML/CSS that allows users to calculate their grades.

Customer Review Predictor   Sep 2024

- Created a model that predicts if a customer review is positive or negative by training and using logistic regression models on representations of the text data. Implemented Python libraries such as Pandas, scikit-learn, and NLTK.

Tetris Game   Jan 2024

- Designed and implemented a version of the game Tetris using various data structures focusing on time and space efficiency in Java.

EXTRACURRICULAR ACTIVITIES

Break Through Tech, Remote   Sep 2022 – Present
Committee Member

- Collaborated with fellow members to find ways to help under-represented demographics enter the tech industry.