Benjamin Tate

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EDUCATION

George Mason University | Fairfax, VA

B.S. in Computer Science | GPA: 3.57 **May 2024**

Dean's List**:** Fall 2022, Spring 2023, Fall 2024

Relevant Courses**:** Full Stack Development (planning/dev/implementation/maintenance), Databases(acquisition/cleaning/analysis), Data Mining and knowledge discovery (digital format/metadata standards).

TECHNICAL SKILLS

Programming Languages: Java | JavaScript | SQL | CSS/HTML | C | Go | Python

Technologies/Frameworks: jQuery, ReactJS, REST API, Docker, Bootstrap, Django, Pandas, NumPy, Unix/Linux

Certifications: COMPTIA Security+ (Expected February 2025)

PROJECTS

Kitchen Katalyst - Personal Project

- Developed a full-stack web application in **Django** to track and generate recipes from grocery items
- Constructed robust database and authentication system to protect and manage data for dozens of users **SQLite**
- Created web templates to suggest and display recipes for preparation, limiting time spent searching for recipes online **HTML/CSS | Javascript | Python**

Linux Task Manager - Challenge Project

- Managed concurrent processes in **C** by implementing signal handling and tracking program execution
- Designed custom **Linux** commands enabling the user to interact with the Task Manager and running OS programs
- Utilized linked-lists to store essential processes information to optimize memory usage **C | Linux**

Map Reduce - School Project

- Designed a **Go**-based distributed framework to rapidly process data sets utilizing parallel processing and multithreading to reduce runtime
- Implemented system resilience and fault tolerance mechanisms, with a focus on scalability and performance **Go**

PROFESSIONAL EXPERIENCE

Systems Programming Teaching Assistant | George Mason University | Fairfax, VA Aug 2023 - May 2024

- Provided insight and guidance for students by solving problems related to assembly language, data types on embedded systems, Linux system calls, virtual memory, and concurrency in **C**
- Collaborated with students and instructors to administer online resources and conceptualize course material in a dynamic and accessible format

Data Structures Teaching Assistant | George Mason University | Fairfax, VA Jan 2023 - May 2023

- Created code documentation to explain usage and syntax of dynamic arrays, linked-lists, tree structures, and graphs in **Java**
- Mentored over 50 students in course material centered around data structures, and object-oriented programming techniques. This includes hash-maps, tree structures, dynamic arrays, priority queues, and graphs
- Assessed students' understanding of course concepts and project specifications to coach for aptitude to compartmentalize large projects