Robert A. Zanetti III

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EDUCATION

JUNE 2023
Bachelor of Science in computer science, James Madison University - Harrisonburg, Virginia
GPA: 3.25 · STEM Second Century Merit Scholarship · Deans-list 2020, 2021
Relevant Coursework:
Introduction to Programming – coded a birthday calculator using Python and an SQL database.
Advanced Programming – gained proficiency in the Java programming language and coded an asteroids game in Java.
Software Engineering – created a user spreadsheet software using Java.
Computer Systems – learned the fundamental workings of the C programming language.
Applied Algorithms – learned about time complexities and how to code efficiently using Python.
Database Systems – learned SQL to perform operations on complex databases. Also learned how to construct databases.
Web Development– learned and mastered HTML, CSS, and JavaScript to create an end-to-end web service.

SKILLS

Languages: Java, C, C++, Python, JavaScript, Typescript, SQL, HTML, CSS

Technologies:
- **Cloud server management** with AWS
- **Project management** with GitLab, OpenShift by Red Hat, and Scrum
- **Coding Skills:** Arrays, Collections, Generics, Type Arguments, Structs, Recursion, Binary Trees, UML, Software Documentation, Agile, Data Structures, Algorithms, Unit Testing, Cloud Service

WORK EXPERIENCE

2022 - SUMMER
INTERNSHIP – SOFTWARE DEVELOPMENT INTERN, GCI, INC. - CHANTILLY, VIRGINIA
· *Learned and performed Regex Parsing, UI Development using JavaScript and Typescript, extensive unit testing, backend web development involving manipulation of Avro schemas and pulling endpoints for data retrieval.*
· *Used Gitlab and OpenShift by Red Hat for project coordination.*
2021 – SUMMER
INTERNSHIP – COMPUTER SCIENCE, SES GOVERNMENT SOLUTIONS, INC. - RESTON, VIRGINIA
· *Updated the Knowledge Management System (KMS) for SES*
Worked on Network Automation Functions for the Monitoring & Control system.

PROJECTS

End-to-end web service - created a website that allows the user to store information about crypto trades including the number of coins purchased and the price of the coin. The website then performs a series of calculations to provide the user with more information about the trade including the total cost of the trade.
Improved Merge Sort - Created a custom Merge Sort algorithm in Java that used Insertion sort on small sub-arrays and Merge Sort with multithreading on larger arrays.
Dynamic programming rocket sections - created a Python program that takes a list of parts available to a rocket construction crew, and based on the dimensions of the rocket, calculates the minimum number of parts needed and provides the exact part types needed.