

Robert A. Zanetti III

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EDUCATION

AUGUST 2023

Bachelor of Science in computer science, James Madison University - Harrisonburg, Virginia

GPA: 3.215 · 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 (Portfolio website: <https://imulife.com/>)

Job-Portal-Website - Developed a comprehensive web-based Job Portal application utilizing the MERN Stack (MongoDB, Express.js, React.js, Node.js). The platform facilitates seamless user registration as either applicants or recruiters, and features persistent login sessions safeguarded by JWT token verification.

Wikipedia Web-Scraper - Extracts text content and image links from a given Wikipedia page, counts the frequency of words within the text, and saves the results to a CSV file. It makes an HTTP request to fetch the Wikipedia page's HTML, and utilizes BeautifulSoup to parse and extract paragraphs and image tags.

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.