**MARTHA APONBIEDE**

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# EDUCATION

**Valparaiso University Valparaiso, Indiana, USA**

*Computer Science (BSc) January 2021 - May 2024*

*GPA: 3.75/4.00 – Dean’s List*

# TECHNICAL SKILLS

**Programming Languages:** Python 3, Java, C/C++, Go/Golang, HTML 5, Tailwind CSS, JavaScript, R, LLMs

**Libraries and Frameworks:** Spring Boot, JUnit, Docker, AWS, React, Node, Next.js, Flask, Sklearn, Pandas, TCP/IP, Android Studio

**Developer Tools:** Git/GitHub/GitLab, npm, Webpack, Linux, Jira, CI/CD, Agile Methodology, TDD, Software Development Life Cycle

**Databases:** MongoDB, MySQL, PostgreSQL, Neo4j

# RELEVANT COURSEWORK

Algorithms and Data Structures, Object Oriented Programming, Statistics, Full-Stack Development, Software Design and Development, Programming in C and C++, Securing & Admin Linux, Discrete Math, Machine Learning in R for Cyber Security, Networks

# WORK EXPERIENCE

**Software Engineer Co-Op** *June 2023 - May 2024*

## ComEd, Oakbrook Terrace, Illinois

* Developed an Energy Efficiency Recommendation ChatBot, utilizing React.js and the GPT-3 API to analyze individual customer attributes, usage patterns, appliance types, and household characteristics.
* Developed Python automation scripts to streamline asset population processes for 30,000 data entries within ComEd's internal software, reducing operational overhead by 90%.
* Enhanced defect detection precision within ComEd's AI software utilizing the Fast-RCNN model and advanced labeling classification for real-time object detection. Notably boosted model accuracy by 80%.

**Software Developer** *January 2024 - May 2024*

## Valparaiso University, Valparaiso, Indiana

* Led a team of three developers in designing and implementing a comprehensive citation web application that enables users to seamlessly add, search, remove, and group bibliography items.
* Engineered functionalities using React.js and Node.js for the front end and Express.js and PostgreSQL for scalable data storage that resulted in a 60% improvement in efficiency for reference management.

# PROJECTS

**Software Engineer,** *Nourish Net (Black Wings Hackathon) February 2024*

* + Collaborated with a team of four to implement an intuitive platform using React.js and Node.js, targeting food insecurity among college students nationwide.

**Software Engineer,** *E-Commerce Application January 2024*

* + Implemented JavaScript backend functions to manage users, products, and orders, transforming them into REST API endpoints for optimized operations. Utilized MongoDB for flexible and scalable data storage, resulting in a 30% increase in data retrieval speed.

**Software Engineer,** *Java Paint Application August 2022 – November 2022*

* + Developed a Java-powered version of Microsoft Paint utilizing Java and JavaFX within Agile sprints, greatly enhancing functionalities for image manipulation and editing.
  + Executed comprehensive unit testing and debugging procedures to guarantee the application's adherence to functional requirements and user satisfaction.

# EXTRACURRICULAR ACTIVITIES

**Goldman Sachs x RTC Bootcamp** *October 2023 - April 2024*

* + Selected among 52 students to shadow a Goldman Sachs Software Engineer, gaining insights into Proxy, APIs, Java backend, and experiencing real-time demos.

**Vice President,** *National Society of Black Engineers (NSBE) August 2023 - May 2024*

* + Organized membership engagement events, leading to an impressive 45% boost in both membership and professional development among students.