David Valarezo

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Education

Cornell University, College of Engineering   **Ithaca, NY**
B.S in Computer Science, Minor in Business   Expected May 2027
GPA: 3.74

Related Courses: Discrete Structures, Statistics and Probability, Object Oriented Programming and Data Structures, Introduction To Backend Web Development, Linear Algebra, Multivariable Calculus

Skills

- **Languages:** Java, Python, SQL, TypeScript, JavaScript, HTML/CSS,
- **Frameworks/Developer Tools:** React, Node.js, Express.js, Flask, JUnit, Git, Docker, VS Code, IntelliJ, Postman

Project Experience

Obligo   **Remote**
Full Stack Web Developer   *June 2024 - Aug 2024*
- Developed a web app to manage chores, with features like family creation, role management, and task delegation
- Enhanced user experience by designing a responsive interface with Next.js, React, and MUI components
- Streamlined data management by creating a RESTful API with Node.js and Express.js, enabling efficient CRUD operations on a MongoDB database
- Integrated user authentication using JWT and managed global state with Context providers and reducer functions

Lagos Food Bank, Cornell Hack4Impact   **Ithaca, NY**
Full Stack Web Developer   *Mar 2024 - May 2024*
- Collaborated with **10** peers to develop a website that organizes **19,000** active volunteers for a food bank in Nigeria
- Utilized Node.js and Express.js to create endpoints for seamless interaction with Firebase database
- Developed interactive components in React and TypeScript to enhance functionality and prepare for deployment

Intelligent Image Selector   **Ithaca, NY**
Java Developer   *Apr 2024 - May 2024*
- Developed a Java Swing GUI allowing users to upload, crop images with polygons, and save them locally
- Created an intelligent scissor mode using color weights and Dijkstra's algorithm for more accurate edge detection
- Reduced processing time for edge calculations by **40%** using heap-based implementation of Dijkstra's algorithm
- Applied extensive JUnit testing to ensure reliability of image cropping and intelligent scissor features

Lost and Found App   **Ithaca , NY**
Backend Developer   *Apr 2024 - May 2024*
- Implemented RESTful endpoints to enable communication between a Swift frontend and a Python Flask backend, utilizing SQLAlchemy for ORM
- Deployed the Dockerized backend onto Google Cloud VM instances, enabling online hosting and accessibility

Hackademics   **Remote**
Lead Backend Developer   *Dec 2022 - Feb 2023*
- Created a website dedicated to teaching local students humanities and STEM with **2** peers
- Developed the backend in Python with Flask as the framework and sqlite3 to store user information
- Coded features such as login/signup, email verification with JWT, and password hashing

Leadership Experience

Cornell Bowers CIS ASCEND Program   **Ithaca, NY**
Intern   *Sep 2023 - Present*
- One of **28** students chosen from a pool of over **200** for this two-year exploratory program guiding incoming freshmen into a future career in tech. Participated in teamwork exercises and project management with peers.
- Collaborating with a small team and industry mentors to develop and refine a startup concept and pitch