David Valarezo

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Education

Cornell University, College of Engineering   **Ithaca, NY**
B.S in Computer Science, Minor in Data Science   Expected Dec 2026
GPA: 3.63

Related Courses: Analysis of Algorithms, Foundations of AI, Practical Tools for Data Science and Machine Learning, Discrete Math, 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:** Tableau, Pandas, React, Node.js, Express.js, Flask, JUnit, Git, Docker, VS Code, IntelliJ, Postman

Experience

Capital One   **McLean, VA**
Incoming Software Engineering Intern   *Jun 2025 - Aug 2025*

Cornell Bowers CIS ASCEND Program   **Ithaca, NY**
LinkedIn Intern   *Sep 2023 - Present*
- One of **28** students chosen from a pool of over **200** for this exploratory program guiding freshmen into tech
- Collaborating with a small team of 5 and industry mentors to develop an AI email assistant startup, focusing on market research, MVP development and business strategy
- Leading project coordination by establishing a timeline of deliverables, maintaining mentor communication, and organizing resources in Notion.

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 and JSON for data parsing
- Deployed the Dockerized backend onto Google Cloud VM instances, enabling online hosting and accessibility