

David Valarezo

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Education

Cornell University, College of Engineering
B.S in Computer Science, Minor in Business
GPA: 3.74

Ithaca, NY
Expected May 2027

Related Courses: Object Oriented Programming and Data Structures, Introduction To Backend Web Development, Linear Algebra, Multivariable Calculus, Harvard's CS50x (edx), AP Computer Science A

Project Experience

Research at Cornell University's College of Human Ecology

Remote

Full Stack Developer

June 2024 - Present

- **EmBody App** : Collaborating with researchers and peers to develop an app tailored for individuals with Parkinson's disease to articulate and differentiate bodily sensations associated with their condition using bodily sensation maps (BSMs). Implementing backend with Node.js, Express.js, Javascript, and MongoDB
- **Pain Web App**: Working with researchers and peers to create a web app that objectively measures patient pain levels using a deep learning model trained on heart activity. Developing features to display real-time pain metrics to doctors with technologies such as Python, Javascript, Node.js, Express.js, MongoDB, and React

Chore Tracker Web App

Remote

Full Stack Developer

June 2024 - Present

- Developing a web app for users to form families and hold each other accountable in completing their chores
- Designed the frontend using Next.js, React, and MUI components for a responsive and user friendly interface
- Created a RESTful API using Node.js and Express.js for CRUD operations on MongoDB database
- Integrated user authentication using JWT tokens and created global state management for efficient data display

Lagos Food Bank, Cornell Hack4Impact

Ithaca, NY

Full Stack Web Developer

Mar 2024 - May 2024

- Collaborated with peers to develop a website to organize **19,000** active volunteers for a food bank in Nigeria
- Utilized Node.js and Express.js to create endpoints for seamless interaction with Prisma and Firebase databases
- Developed interactive components in React and TypeScript for efficient sorting and displaying user data

Lost and Found App

Ithaca, NY

Backend Developer

Apr 2024 - May 2024

- Implemented various RESTful endpoints to facilitate communication between the Swift frontend and backend
- Designed the backend using Python and Flask, and implemented the database model using SQLAlchemy
- 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 JSON web tokens, and password hashing

Leadership Experience

Cornell Bowers CIS ASCEND Program

Ithaca, NY

Intern

Sep 2023 - Present

- Highly selective two-year exploratory program designed to support the successful transition of incoming freshmen into academia and their pursuit of a future career in tech
- Spent the first two semesters gaining insight on achieving academic success and initial team collaboration work
- Summer and following semesters will involve collaborating with a small team to create a startup with guidance from mentors in the industry

Skills & Interests

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