Jancarlos Sosa

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EDUCATION

University of Connecticut College of Engineering, Storrs, CT   May 2025
Bachelor of Science in Computer Science
Concentration in Software Design and Development
Extracurriculars: Husky Developers, UCONN Data Science Club, Residential Assistant (RA)

TECHNICAL SKILLS

Programming Languages: Python, C, Java, SQL, HTML, CSS, JavaScript, TypeScript
Tools: Git, AWS, Flask, MySQL, Angular, React Native, Visual Studio Code, Figma, Draw.io

WORK EXPERIENCE

Infosys, Hartford, CT   May 2024 - July 2024
InStep Tech Intern
- Developed a **RESTful API** backend using **Java** with **Spring Boot**, allowing data access from the front end by interfacing with a **MySQL** database
- Collaborated with a team of three interns, building a **full-stack** web application from the ground up, utilizing **Angular** for the front-end development
- Designed and managed a **MySQL** database to store mock healthcare data for patient and providers, optimizing data storage and performance of the retrieval process

UConn Chemistry Department, Storrs, CT   August 2024 – November 2024
Python Flask Developer
- Established connections between a **MySQL** database and a **Flask** web application
- Updated and rendered **HTML** pages using data from database tables, including user profiles, activity logs, project records, etc.
- Oversaw **MySQL** database management, adding new columns and tables as needed for evolving data requirements

RELEVANT PROJECTS

Stock Trading Web Application (GitHub: https://github.com/Sosa-IQ/PSGTrades)
- Built a **full-stack** web application using **Angular** and **AWS** to automate repetitive trading tasks, reducing the execution time of such tasks from approximately 50 minutes to a few seconds
- Integrated **AWS Cognito** for user authentication, triggering a **Lambda** function to store user data within **DynamoDB**
- Created a RESTful API via **API Gateway**, which calls a **Lambda** function to execute trade orders for users
- Deployed the application to **AWS S3** for static website hosting, configured **Route53** and **CloudFront** for secure routing via TLS certification to www.psgtrades.com

Finance Budgeting Mobile App (GitHub: https://github.com/Sosa-IQ/FinanceProject)
- Designed and developed a mobile application from scratch using the **React Native Expo** framework, with prototyping and design support through **Figma**
- Integrated **Plaid** to securely retrieve real bank data, enabling users to link to their bank accounts
- Utilized **Appwrite** to implement scalable authentication and cloud database support for data storage

Python Flask Webserver
- Developed a static website using **Python Flask**, enabling users to upload, view, and download images via a web interface
- Deployed the webserver to an **AWS EC2** instance, using a CI/CD pipeline through **GitHub** Actions
- Wrote comprehensive **unit tests** ensuring correct program functionality and covering edge cases for robustness

RELEVANT COURSEWORK

Courses: Intro to Software Engineering, Cloud Computing, Intro to Data Science, Systems Programming, Data Structures & Object-Oriented Design, Algorithms and Complexity

HOBBIES/INTERESTS

Full-Stack Development, Web Development, Mobile Development, FinTech, Healthcare