Saul Moreno-Avila

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EDUCATION

University of North Carolina at Charlotte — Charlotte, NC
Bachelor of Arts in Computer Science — *Aug. 2021 – May 2025*

Honors
Dean's List: Fall 2022, Fall 2023, Chancellor's List: Spring 2023, Fall 2024

PROJECTS

QuickTask API | *FastAPI, SQLAlchemy, Celery, Redis, Docker, GitHub Actions* — May 2025 – Present
- Developed an asynchronous REST API with FastAPI to support full CRUD operations for user and task management
- Implemented CI/CD workflows using GitHub Actions for linting, async testing, and database setup; containerized the application with Docker
- Integrated Celery with Redis to handle background task queues and scheduled email reminders; configured SMTP pipelines for local and production environments

Eventify | *Node.js, Express.js, MongoDB, EJS, CSS, JavaScript* — August 2024 – December 2024
- Built and deployed a full-stack web platform using Node.js, Express.js, and MongoDB, enabling users to list and purchase event decorations with user-friendly EJS-based views
- Collaborated in an Agile team using 2-week sprints to develop and debug backend components and support deployment
- Documented local environment setup and supported teammates with deployment and troubleshooting

Nimbus - Student Life Dashboard | *React, TypeScript, Firebase, Tailwind CSS, FCM* — June 2025 – Present
- Built a full-stack web app serving as a student productivity platform with assignment tracking, budget management, and campus event discovery features
- Developed assignment and budget trackers with Firestore CRUD operations, smart status badges real-time calculations using date-fns, automated expense categorization, and calendar view for deadline management
- Implemented secure Firebase authentication system including email verification, Google OAuth, password policies, and serverless email-change functionality via Cloud Functions; integrated real-time data sync

Online Restaurant Ordering Application | *FastAPI, Python, SQLAlchemy* — January 2024 – May 2024
- Developed a structured backend application using FastAPI and SQLAlchemy, handling restaurant orders, user sessions, and secure payment flow
- Designed and executed unit tests for backend API endpoints, simulating edge-case inputs and verifying system reliability
- Participated in Agile sprints to implement and test RESTful API endpoints, applying object-oriented design and backend validation techniques

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, C#
Frontend & Styling: HTML, CSS, React, Tailwind CSS
Backend & Databases: Node.js, Express, FastAPI, Flask, SQLAlchemy, Firebase
DevOps & Tools: Git, GitHub, Docker, GitHub Actions, Celery
Practices & Testing: Agile, RESTful APIs, CI/CD, OOP, SDLC, Debugging, Unit Testing, API Testing, Automated Testing

EXPERIENCE

Front End Cashier — March 2021 – April 2021
Walmart — *Monroe, NC*
- Managed point-of-sale operations accurately in a fast-paced, high-volume retail setting
- Resolved customer issues quickly and clearly, improving customer satisfaction
- Communicated with teammates to maintain smooth checkout flow and reduce wait times
- Practiced attention to detail under pressure and adapted quickly to changing priorities