

Carlo Ace Sagad

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EDUCATION

CUNY - Queens College

Bachelor of Arts in Computer Science

Queens, NY

May 2025

EXPERIENCE

Software Engineer - Full Stack Developer

Jul 2025 – Sept 2025

The Build Fellowship by Open Avenues

Remote

- Engineered a full-stack personal finance application using **React**, **Node.js**, and **PostgreSQL**, enabling users to track real-time budgets and expenses.
- Architected secure RESTful APIs and a normalized database schema to handle complex financial data transactions, ensuring data integrity and backend reliability.
- Executed Agile methodologies (daily standups, sprint planning) to deliver a production-ready MVP within a strict timeline, accelerating the deployment lifecycle by 20%.

Tech Fellow (TIP 102 - Technical Interview Prep)

May 2025 – Present

CodePath

Remote

- Direct technical mentorship for a cohort of 50+ students in advanced Python data structures and algorithms (Hash Maps, Trees, Graphs).
- Diagnose and debug complex logic errors in student code during live sessions, improving their problem-solving velocity and code efficiency.
- Facilitate mock technical interviews and code reviews, directly contributing to students' readiness for technical industry assessments.

Software Engineer - Backend

Mar 2025 – Jun 2025

CUNY Tech Prep Open Source Lab

New York, NY

- Developed a real-time attendance tracking system using **Node.js** and **Zoom Webhooks**, automating data entry to reduce manual administrative workload by 40%.
- Optimized backend performance for a React/PostgreSQL dashboard, implementing advanced filtering logic that allowed instructors to export granular attendance reports instantly.

Software Engineer - Full-Stack Development Fellow

Jul 2024 – Dec 2024

CUNY Tech Prep

New York, NY

- Built and deployed scalable full-stack applications using PostgreSQL, Express.js, React, and Node.js (PERN stack), adhering to industry-standard CI/CD pipelines.
- Collaborated in a cross-functional team to design robust APIs and microservices, utilizing Git workflows to manage version control and feature integration.

PROJECTS

LinkUP NYC | [Link](#) | *Node.js, Google Maps API, LangChain, OpenAI*

Nov 2025

- Engineered a geospatial meeting optimizer using **Node.js** and **Google Maps API**, implementing a custom minimax algorithm to calculate the fairest midpoint based on multi-user transit times.
- Integrated **LangChain** and **OpenAI** to analyze route data, generating real-time natural language summaries that explain the fairness logic behind each location recommendation.

SentiVest | [Link](#) | *React Three Fiber, Flask, Gemini API*

Nov 2025

- Developed an immersive financial dashboard using **React Three Fiber**, developing a custom 3D particle system that renders real-time AI sentiment analysis as dynamic, generative visual states.
- Architected a real-time data pipeline using **Flask** and **Gemini API** to process live news feeds, utilizing **React Context API** to synchronize data streams without performance degradation.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, SQL, HTML, CSS

Frameworks: React, Next.js, Node.js, Express.js, Flask, Tailwind CSS

Libraries & APIs: LangChain, React Three Fiber, OpenAI API, Google Maps API, RESTful APIs

Databases & Tools: PostgreSQL, MySQL, Git, GitHub, VS Code, Postman, Azure Data Studio