Jean Carlo Almario

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EDUCATION

Texas Tech University, Lubbock, TX *Expected Graduation: May 2027*
Bachelor of Science in Computer Science GPA: 3.9
Relevant Coursework: Machine Learning, Object-Oriented Programming, Database Systems, Computer Architecture

EXPERIENCE

Health Safety & Environment *May 2024 – July 2024*
Software Engineer Intern

- Automated a critical reporting process using Node.js/Express, reducing weekly manual reporting time by parsing PDF data into formatted Excel reports
- Integrated the service with AWS S3 to programmatically retrieve input PDFs and store the resulting Excel reports
- Contributed to a production codebase in an agile environment using Git, daily stand-ups, and peer code reviews

PERSONAL PROJECTS

Multi-Agent AI Website Generation Platform (HackTX Prize Winner, UT Austin) *October 2025*
Next.js · Node.js · DigitalOcean AI Agents · GitHub API

- Developed an AI-powered platform that generates and deploys fully functional React websites from natural language descriptions
- Designed a multi-agent architecture to coordinate code generation, project creation, dependency installation, and cloud deployment
- Built a real-time dashboard for live preview, authentication with NextAuth (GitHub OAuth), and detailed status feedback

Real-Time Multilingual Chat Platform *December 2024*
MERN stack · Socket.io · AI Translation · Encryption

- Built production-ready real-time chat platform with AI translation, WebSocket communication, and message encryption
- Secured platform with AES-256-CBC encryption, achieved ¡100ms message delivery, and optimized for production deployment
- Designed RESTful API with JWT authentication, MongoDB integration, and Google Gemini AI for 12+ language support

Lexical & Syntax Analyzer *November 2025*
C++ · GCC · Makefile

- Developed a fully functional syntax analyzer for a C-like language using a hand-written lexer and recursive-descent parser.
- Implemented recursion to handle nested expressions, statements, and control structures, ensuring modular and maintainable grammar rules.
- Engineered robust error detection with descriptive messages and reusable parsing components, improving debugging and code clarity.

LEADERSHIP & INVOLVEMENT

CodePath Student Organization *January 2025 - Present*
Development Team Backend Coder

- Collaborated on a full-stack TTU platform improving student–professor interaction, including live attendance tracking, interactive quizzes, and real-time Q&A.
- Engineered the backend with Node.js/Express and WebSockets to support low-latency, real-time communication for hundreds of concurrent users.
- Applied scalable architecture patterns, robust API design, and database integration to ensure reliable performance and maintainable code.

Society of Hispanic Professional Engineers *August 2024 - Present*
Mentor

- Guided freshmen and sophomore Computer Science students in DSA, OOP, and professional development, enhancing technical skills and career readiness.
- Organized and led study sessions, and peer-learning events, fostering collaboration and engagement within the chapter.
- Provided one-on-one mentoring and feedback, helping mentees successfully navigate academic challenges and project work.

Technical Skills

Programming Languages: Python, JavaScript/TypeScript, Java, C++, C, SQL
Frameworks & Libraries: Node.js, Express.js, React, Next.js, Angular, PyTorch, NumPy, Mongoose, Scikit-Learn
Technologies & Tools: AWS, Docker, Git/GitHub, CI/CD (GitHub Actions), RESTful APIs, JWT Authentication, Unit Testing, Linux, Postman, JSON, HTTP Requests, WebSockets, NextAuth.js, DigitalOcean AI Agents