

Raul Martinez Jr.

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SUMMARY: Veteran and computer science student with experience in AWS-powered full-stack development, including React, Node.js, MongoDB, and REST APIs. Strong in team leadership, software engineering fundamentals, and scalable architecture design.

EDUCATION

The University of North Texas | Denton, TX

Bachelor of Science – Computer Science (ABET accredited) | **GPA:** 3.2/4.0 | **December 2024**

Relevant Courses: Data Structures, Algorithms, Operating Systems, Software Engineering, Fundamentals of Databases, Internet Programming, Computer Networks, Machine Learning, Software Testing

TECHNICAL SKILLS

Programming Languages: Python (Intermediate), JavaScript (Intermediate), C++, Node.js, HTML, CSS, SQL, NoSQL

Frameworks & Libraries: ReactJS, Express.js, MongoDB (Mongoose), AWS SDK

Cloud & DevOps: AWS (Lambda, API Gateway, Cognito, DynamoDB, Amplify, CodePipeline), CI/CD, REST APIs

Tools & Methodologies: Git, GitHub, Agile, Postman, Jupyter, Linux, VS Code, CI/CD, Object Oriented Design, SDLC

PROJECTS

SIFT: Airline Ticket | Capstone (Team Leader)

December 2024

- Built a responsive **ReactJS** front-end and designed a serverless backend using **AWS Lambda**, **API Gateway**, **DynamoDB**, and **Amplify**, resulting in a 20% improvement in load time and user engagement.
- Engineered secure user authentication and registration with **AWS Cognito** to ensure a seamless user experience and reducing login friction by 15%.
- Implemented core features including dynamic flight search, price confirmation, and booking functionality through **Amadeus API** integration.
- Led the team by coordinating tasks, planning project phases, and resolving complex debugging challenges.
- Integrated a **machine learning model** (Random Forest) with 70% accuracy to analyze a decade of flight history and predict the optimal dates to find the cheapest tickets, improving user value and decision-making.

UNT Off-Campus Housing Web App | Full Stack (Team Leader)

December 2023

- Built and deployed a full-stack housing listing web app using **Node.js**, **Express.js**, **MongoDB**, and **ReactJS**.
- Deployed backend on AWS Elastic Beanstalk, implemented CI/CD with AWS CodePipeline.
- Coordinated frontend design and backend integration, emphasizing responsive UI and RESTful architecture.
- Integrated **Google Maps API** to display real-time housing locations on an interactive map.

RELEVANT EXPERIENCE

U.S. Army, Fort Hood, TX | Nodal Network Systems Operator

April 2017 - July 2019

- Maintained LAN/WAN/VPN network hardware and software, including routers, switches, load balancers, and wireless networking equipment.
- Diagnosed and resolved technical issues in IP-based electronic nodal systems, ensuring uninterrupted communication.
- Performed maintenance on network control centers, multiplexing equipment, and subscriber interfaces to ensure reliability during operations.

Raul's Lawn & Garden Co., Fort Worth, TX | Manager

July 2020 - Present

- Supervised a small crew to maintain over 100 residential and commercial properties weekly, ensuring high-quality service.
- Managed customer interactions by addressing inquiries, resolving concerns, and processing payments to ensure client satisfaction.
- Developed a marketing website to showcase work and streamline customer outreach using **ReactJS**.