

Alexis M. Navarro

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Education

- **The University of Texas at El Paso** | Graduated: May 2024
- **M.S. in Software Engineering** | *Concentration: Secure Cyber-Systems* | GPA: 3.90
- **B.S. in Computer Science** | *Concentration: Software Engineering* | *Minor: Mathematics* | GPA: 3.35

Professional Experience

Backend Software Engineer and Database Management | Hiller Measurements

May 2024 - August 2024

- Collaborated with cross-functional Agile teams to develop and deploy backend services using Python, Pandas, and Rest APIs
- Authored detailed technical documentation using MS Office and Figma, cutting onboarding time by 80%
- Designed and optimized scalable SQL Databases using SQL Alchemy ORM, improving query efficiency and reducing execution time by 60%
- Contributed to backend logic for data retrieval and filtering from an SQL database, simulating search feature behavior and improving query performance by 70%
- Developed automation scripts and unit/integration tests, achieving 100% code coverage across 100+ backend functions

Full Stack Software Engineer | Pacific Northwest National Laboratory

August 2023 - December 2023

- Developed 50+ UI features using React, JavaScript, Tailwind CSS, and HTML achieving seamless responsive web apps across devices, guaranteeing consistent performance across 5+ device types and screen sizes
- Collaborated with cybersecurity experts to build secure 15+ Node.js modules on Linux ensuring security compliance
- Mentored frontend and backend team members on coding best practices, implementation strategies, and code reviews, fostering consistent development standards
- Designed and deployed distributed microservices in Python using Flask for real-time data ingestion and processing pipelines
- Wrote and optimized 100+ complex SQL queries for data transformation, validation, and reporting across microservices
- Migrated 50,000+ records to AWS RDS, utilizing AWS encryption and tuning for performance

Full Stack Software Engineer | U.S Army DEVCOM

January 2022 - December 2022

- Developed and deployed RESTful APIs using Java and Spring Boot to track 600+ military vehicles components status in MongoDB
- Designed and maintained 30+ responsive web pages using React and Next.js, enhancing UI performance and experience
- Boosted team performance by 80% by actively participating in Agile standups, sprint planning, pair programming, and code reviews in a cross-functional team
- Improved code collaboration by resolving merge conflicts, managing pull requests, and maintaining a clean commit history using Git for version control by 90%
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes, reducing deployment time from 40% to 80%

Technical Skills and Tools

Languages: JavaScript, TypeScript, Java, Python, Golang, PHP, C/C++, C#, SQL, NoSQL

Frontend: React, Next.js, Angular, Tailwind CSS, HTML5, CSS3, Bootstrap

Backend: Node.js, Express, Flask, Spring Boot, REST API, Django, Fast API, GraphQL, NumPy, Pandas, SQL Alchemy

DevOps & CI/CD: Git, GitHub, GitLab, Jenkins, Docker, Kubernetes, AWS (Lambda, IAM, RDS), Azure, GCP

Databases: PostgreSQL, MySQL, MS SQL, MongoDB, DynamoDB, Oracle, SQLite, NoSQL, DBBeaver, Elasticsearch, Cassandra

Testing: Test Driven Development, Test-First Approach, Selenium, Pytest, Unit, Integration, Regression, UAT, Test Coverage

Methodologies: Agile, Scrum, SDLC, Code Reviews, Sprint Planning

Concepts: OOP, UI/UX, ORM, ETL, Data Modeling, Secure Coding, CI/CD, Microservices

Tools: Visual Studio, Figma, Jira, Slack, MS Office, VMware, Virtual Machines, Jupyter, Windows, Linux

Soft Skills: Bilingual (English/Spanish), Collaboration, Problem-Solving, Communication, Adaptability, Growth Mindset