

Omar Khan

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Education

Florida Atlantic University

Master of Science in Artificial Intelligence (GPA 4.00)
Bachelor of Science in Computer Science (GPA 3.49)

Mar 2024 - Dec 2025
Aug 2021 - Dec 2023

Relevant Certifications:

CISSP, AWS Solution Architect (Associate), AWS Sysops (Associate)

Technical Skills

- Data Structures and Algorithms, Python (Django/Flask), Golang, Java, Node.JS, C++, .NET, React, Javascript/Typescript, HTML, CSS, Tailwind, SQL, NoSQL, Bash, Git/GitHub, AWS, GCP, Azure, CI/CD

Experience

Chevron - Software Engineer Intern

Nov 2023 - Apr 2024

- Designed a scalable ETL pipeline with Python and AWS (CloudWatch, Firehose, DynamoDB) to process SCADA device metrics.
- Automated SCADA device recovery with Ansible playbooks, reducing downtime by 14% and enhancing system reliability.

Deloitte - Software Engineer Intern

Jul 2023 - Nov 2023

- Developed a high-performance data conversion tool with C++ and Node.js, boosting query speed by 13% and cutting storage costs for the Federal Energy Regulatory Commission.
- Built a big data ingestion pipeline to enhance project cost estimation and timeline management.

All Clear Decisioning - Software Engineer Intern

Dec 2022 - Apr 2023

- Designed and deployed microservices in Golang for processing and analyzing user financial data.
- Built an ETL pipeline with GCP, improving analysis speed by 25% and improving business insights.

Projects

SHPEcify [SHPE 2024 National Convention Project]

Oct 2024

- Full-stack web app that automates job matching for 2024 SHPE convention attendees, cutting hours of company research down to seconds. Used by hundreds of students across many SHPE chapters.
- Built with Next.js, Tailwind CSS, MongoDB, Python, and OpenAI API.

DREAM [2024 UCF Knight Hacks Hackathon]

Oct 2024

- Full-stack web app for optimizing wind turbine placement by assessing environmental and regulatory factors, generating maps for sustainable energy planning.
- Built with Next.js, Tailwind CSS, Redis, MongoDB, Vercel serverless functions, OpenAI

WasteToWow [1st Place 2023 Tech Together Hackathon Winner]

May 2023

- Full-stack web app for sharing and learning about upcycling materials to reduce environmental waste.
- Built with Next.js, TypeScript, Tailwind CSS, Auth0, AWS S3, OpenAI API, MongoDB.

Extracurriculars

Medium - Technical Writing Blog

Oct 2024 - Present

- Launched a Medium blog focused on explaining complex software engineering concepts to beginners, covering topics like deploying full-stack Next.js applications on EC2 instances.

NSBE - Gary S. May Shadow Initiative Program

Oct 2024 - Apr 2025

- Currently shadowing the National Engineering Diversity Chairperson, to gain insights into NSBE leadership and influence decision-making processes regarding new programs at the national level.

CodePath - TIP103 Advanced Technical Interview Prep

Sep 2024 - Nov 2024

- Participating in a 10-week software engineering course covering data structures, algorithms, system design, and interview preparation, with weekly live sessions, assessments, and career development.

NSBE - SEEK Program Mentor

Jul 2024 - Aug 2024

- Led a coding bootcamp for 60 elementary students, teaching cloud computing and programming through hands-on curriculum, and improving engagement by 17%.