

# Ali Ismail

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## EDUCATION

### University of Houston

B.S. Computer Science - Minor in Cybersecurity

• GPA: 3.7

• **Relevant Coursework:** Operating Systems, Compilers, Machine/Deep Learning, Databases, Networking, Computer Architecture (C, RISC-V), Algorithms, Data Structures (Java, C++, Python), Computer Security, Full Stack Web Development

Houston, TX

Aug 2024 – May 2027

## EXPERIENCE

### DoseOfTravel

Full-Stack Developer Intern

- Engineered and launched a full-stack serverless application using React, Node.js, and AWS Lambda, supporting over 15,000 monthly active users.
- Developed and integrated a recommendation engine using Python and AWS services, improving user engagement and reducing manual customer service workload by 60%.
- Optimized application performance by implementing efficient data querying with DynamoDB and refining backend API logic, resulting in a 20% reduction in response times.

Houston, TX

Dec 2024 – May 2025

### University at Albany

IT Support Specialist

- Managed and maintained a fleet of over 200 Windows devices, troubleshooting OS, software, and network connectivity issues to maximize system uptime for students and faculty.
- Gained foundational experience in network principles and endpoint management with a large-scale, multi-user environment.

Albany, NY

Sept 2023 – May 2024

## SELECTED PROJECTS

### Serveless RAG Chatbot on AWS | AWS Lambda, Bedrock, API Gateway, S3, Terraform, Docker

- Designed and deployed a fully serverless, AI-powered chatbot on AWS, leveraging Lambda, API Gateway, and Amazon Bedrock to implement a Retrieval Augmented Generation (RAG) architecture.
- Engineered a data ingestion pipeline using S3 event triggers to automatically vectorize and store documents in an Amazon OpenSearch vector database, enabling real-time contextual responses.
- Defined the entire serverless infrastructure as code using Terraform, enabling automated, version-controlled deployments via a CI/CD pipeline.

### Automated CI/CD Pipeline for infrastructure | AWS CodePipeline, Terraform, Git

- Constructed a robust CI/CD pipeline with AWS CodePipeline and CodeBuild that automatically deploys infrastructure changes defined in Terraform upon commits to a Git repository.
- Authored modular Terraform configurations to manage all cloud resources, reducing manual deployment time by 95% and ensuring environment consistency.

### Secure AWS Landing Zone | Terraform, AWS Organizations, IAM, Security Hub

- Designed and implemented a secure, multi-account AWS Landing Zone using Terraform to establish a foundational cloud environment compliant with industry best practices.
- Automated the provisioning of core infrastructure, including a multi-account structure with AWS Organizations, centralized logging, and network segmentation using VPCs and Transit Gateway.
- Enforced security guardrails using Service Control Policies (SCPs) to restrict non-compliant actions and integrated AWS Security Hub and GuardDuty for centralized threat detection and compliance monitoring.

## SKILLS & INTERESTS

**Programming Languages:** C++, Java, Python, JavaScript, SQL, C#, TypeScript

**Technologies:** AWS(Lambda, S3, EC2, API Gateway, Security Hub, CodePipeline), Terraform, Docker, CI/CD, IaC, React, Node.js

**Developer Tools:** Git, Linux, REST APIs, JSON, Postman

**Certifications:** Security+, ISC2 CC, AWS Cloud Practitioner, Google Cybersecurity