

Alexander Winkler

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Education

Georgia Institute of Technology <i>Master of Science in Computer Science</i>	Jan. 2026 – Dec. 2027 Atlanta, GA
Eastern Florida State College <i>Bachelor of Applied Science in Software Development (GPA: 4.0)</i>	May 2021 – Aug. 2025 Melbourne, FL

Experience

Cloud Architecture Intern <i>Georgia Technology Authority</i> - Designed and audited enterprise cloud architectures, integrating AWS identity management and Azure active directory patterns to secure multi-tenant state agency infrastructures. - Built and tested localized Docker environments to simulate cross-cloud API communications, identifying resource bottlenecks prior to production staging. - Collaborated on hybrid-cloud migration frameworks, establishing compliance, cost-optimization, and scalability baselines for legacy transitions to AWS.	Jun. 2026 – Aug. 2026 Atlanta, GA
Technical Lead & Founding Member <i>AWS Cloud Builder Club – Georgia Tech</i> - Established technical club initiative to guide GT students through AWS core services, serverless architectures, and preparation for cloud credentials. - Architecting cloud sandbox lab environments in AWS utilizing IAM, Lambda, S3, and DynamoDB for hands-on student workshops.	Aug. 2026 – Present Atlanta, GA
Teaching Assistant – Android App Development <i>Eastern Florida State College</i> Mentored students through 8+ mobile projects, conducting technical code reviews and debugging support in Kotlin and Java.	Jan. 2025 – May 2025 Melbourne, FL
Police Officer <i>City of Rockledge</i> Managed high-pressure field operations requiring analytical investigation, situational risk management, and precise reporting.	Jan. 2022 – Jan. 2023 Rockledge, FL

Certifications

AWS Certified Solutions Architect – Associate – Issued July 2026
AWS Certified Cloud Practitioner – Issued June 2026
Google Digital Leader – Issued July 2026

Projects

Amazon Enterprise Security Analytics Engine <i>Python, DynamoDB, Lambda, S3, Cognito</i> - Architected a scalable cloud analysis pipeline to evaluate data exposure risks across a 1.2M+ record dataset, mapping user directory details to identify security vulnerabilities. - Refactored backend ingestion frameworks to stream threat intelligence files via Amazon S3 into Amazon DynamoDB, modeling GSIs for single-digit millisecond query latencies. - Integrated Amazon Cognito user pools to enforce secure token validation and access control across serverless API endpoints.	Link
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Technical Skills

Languages: Python, SQL, C++, Java, JavaScript, Kotlin, HTML/CSS
Cloud & DevOps: AWS (DynamoDB, S3, Cognito, Lambda, IAM, RDS), GCP, Docker, Vercel, Git
Backend & Data: FastAPI, PySpark, Databricks, MySQL, SQLite, Node.js/Next.js
Tools & Frameworks: Android Studio, PlantUML, Bruno, BeautifulSoup, JUnit, Kiro, Confluence, Jira, React, Angular