

Robert Cole

Software Engineer

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Work Experience

Software Engineer · Optum / United Health Group · Raleigh, NC January 2023 - Present

- Built full-stack applications with Angular / Typescript (frontend), Spring Boot / Java, and PostgreSQL (backend) for a Fortune 100 company
- Led cloud modernization of EHR integrations, expanding our product by 59% across 7+ markets while improving deployment speed
- Enhanced systems that take different data from multiple sources and standardize it into a format that our systems can process
- Worked with business owners to define requirements, constructed and built technical integrations with vendors
- Design and integrate healthcare APIs, working with Epic Health Systems and FHIR / HL7 standards
- Optimized and consolidated legacy code, which reduced time-to-market for affiliate onboarding down to an average of 2 weeks

Technology Development Associate (TDP) · Optum / United Health Group · Raleigh, NC January 2023 - February 2024

- Engineered, designed, and deployed microservices with an Angular front-end and .NET back-end using Azure DevOps, enhancing application performance and scalability. Assisted in establishing new development patterns
- Developed client-facing Angular applications, integrated GraphQL APIs, and optimized Elasticsearch queries. Reduced security vulnerabilities by 95% through code refactoring and dependency upgrades

Network Operations Center Analyst · ServIT · Kennesaw, GA August 2021 - December 2022

- Monitored and conducted IBM-I server operations, executed disaster recovery procedures
- Automated Active Directory audits and cleanups with PowerShell, improving security and efficiency
- Managed SOC tasks and performed vulnerability assessments for client networks
- Provided Level 1 & 2 helpdesk support, troubleshooting systems, networks, and software issues while assisting users

Information Technology (Internship) · City of Kennesaw · Kennesaw, GA May 2021 - August 2021

- Developed cybersecurity policies and phishing awareness training for municipal employees
- Centralized server updates and restructured legacy file systems using Python
- Strengthened email security infrastructure with Proofpoint and CrowdStrike monitoring
- Created and implemented new policies for information security and cybersecurity and monitored crowd strike for executables and remediate

Education

Georgia Institute of Technology | Master of Science - MS Grad August 2027
Artificial Intelligence CS

Kennesaw State University | Bachelor of Science - BS Grad January 2023
Cybersecurity

Projects

Ravens Scale Matrix AI · Georgia Tech Project

Developed an AI-driven visual reasoning system using OpenCV, NumPy, and Python's standard library to solve Raven's Progressive Matrices (RPM), a nonverbal intelligence test measuring abstract reasoning and pattern recognition. Designed a rule-based, non-neural network approach, achieving 38-40% accuracy on questions with 8-10 possible answers, significantly outperforming random selection(10 - 12%).

Skills

Network Operations Center (NOC) · Artificial Intelligence · OpenCV · Cypress · JUnit · MySQL · HL7 Standards · CI/CD · Cloud Computing · SQL · Microservices · Azure · TypeScript · Unit Testing · Spring · Python · JavaScript · Java · HTML · Docker · CSS · Angular · Agile