

# Robert Cole

## Full Stack – 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
- 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 user

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 remediated alerts

### EDUCATION

**Georgia Institute of Technology** | Master of Science (MS), Computer Science - Artificial Intelligence | Expected August 2027

**Kennesaw State University** | Bachelor of Science (BS), Cybersecurity

| Graduated January 2023

### PROJECTS

Ravens Scale Matrix AI · Georgia Tech Project

Developed an AI-driven visual reasoning system using OpenCV and NumPy to solve Raven's Progressive Matrices, implementing rule-based algorithms without neural networks, achieving over 3x higher accuracy than random selection.

Dialysis Tracking Application · Georgia Tech Project

Built a full-stack application integrated with FHIR servers to manage peritoneal dialysis (PD) schedules, treatments, and patient records, enabling patient health tracking, analytics-driven trend monitoring, and provider notifications to support informed clinical decisions.

### SKILLS

Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, JSON, XML, Angular, Spring Boot, OpenCV, Cypress, JUnit, Node.js, React, Next.js, Flask, FastAPI, RxJS, Azure, Docker, CI/CD, Git, GitHub Actions, Kubernetes, Terraform, Linux, Bash, Cloud Computing, MySQL, PostgreSQL, MongoDB, HL7 Standards, NoSQL, ETL Pipelines, Data Integration, Unit Testing, Integration Testing, E2E Testing, Test Automation