

Robert Cole

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Summary

Software Engineer with experience in building scalable web applications and modernizing systems, specializing in Java and Spring Boot. Led cloud modernization projects and designed healthcare APIs and frontends, enhancing interoperability and data exchange. Pursuing a Master's in Computer Science at night, focusing on AI to deepen technical expertise. Eager to leverage Java skills to drive innovative solutions in a Java Engineer role.

WORK EXPERIENCE

Optum / United Health Group

Jan 2023 - Jun 2025

Software Engineer - Full Stack

Raleigh, NC

- Built full-stack applications with Angular / Typescript (frontend), Spring Boot / Java, and PostgreSQL (backend) for a Fortune 100 company
- Collaborated with business owners and cross-functional teams to define integration specifications and built scalable vendor APIs, enabling seamless data flow between external healthcare systems and internal platforms
- Led cloud modernization of EHR integrations, expanding our product by 59% across 7+ markets while improving deployment speed
- Designed and integrated healthcare APIs, working with Epic Health Systems and adhering to FHIR/HL7 standards, to enhance interoperability and data exchange
- Built responsive Angular/TypeScript frontend applications with user-centered design principles, enhancing workflow efficiency for internal tools used by 500+ healthcare professionals
- Standardized data from multiple sources into a processable format, improving data integration and system processing capabilities
- Optimized and consolidated legacy code, which reduced time-to-market for affiliate onboarding down to an average of 2 weeks
- Reduced security vulnerabilities by 95% through code refactoring and dependency upgrades
- Engineered, designed, and deployed microservices with an Angular frontend and .NET backend using Azure DevOps, enhancing application performance and scalability. Assisted in establishing new development patterns

ServIT

Aug 2021 - Dec 2022

Network Operations Center Analyst

Kennesaw, GA

- Managed SOC tasks and performed vulnerability assessments for client networks, enhancing network security and reducing potential threats
- Provided Level 1 & 2 helpdesk support, troubleshooting systems, networks, and software issues, which improved user satisfaction and reduced downtime
- Automated Active Directory audits and cleanups with PowerShell, improving security and efficiency

City of Kennesaw

May 2021 - Aug 2021

Information Technology (Internship)

Kennesaw, GA

- Developed cybersecurity policies and phishing awareness training using Proofpoint for municipal employees, enhancing their ability to recognize and prevent security threats
- Created and implemented new policies for information security and cybersecurity and monitored crowd strike for executables and remediated alerts
- Streamlined server updates and revamped file systems with Python, boosting efficiency.

EDUCATION

Georgia Institute of Technology

Mar 2024 - Aug 2027

Master of Science (MS), Computer Science - Artificial Intelligence

Kennesaw State University

Jan 2023

Bachelor of Science (BS), Cybersecurity

PROJECTS

Ravens Scale Matrix AI

Georgia Tech

- Developed an AI-driven visual reasoning system using Python, 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

- 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