

# Nabil Adem

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## EDUCATION

### Rhodes College

*Bachelor of Science (B.S.) in Computer Science*

- cum laude, Upsilon Pi Epsilon

Memphis, TN

May 2023

## EXPERIENCE

### Software Developer

Jan. 2024 – June 2025

*Capgemini*

*Nashville, TN*

- Designed, developed, and deployed enterprise-scale software solutions for Fortune 500 clients, supporting digital transformation and modernization initiatives
- Built and optimized Dialogflow CX conversational AI workflows, improving intent recognition accuracy and reducing customer handoff rate to human agents by 55%
- Enhanced Agile defect triage process by integrating test cases with user stories, cutting defect resolution time by 40% and boosting QA traceability by 60%
- Contributed to API modernization, migrating legacy systems to Spring Boot RESTful microservices, improving response times by 50% and reducing maintenance costs by \$120K annually
- Implemented Kafka-based event-driven architecture, enabling real-time data streaming and reducing latency in mission-critical operations by 45%
- Collaborated with cross-functional Agile teams and utilized CI/CD pipelines, Git, and Docker to deliver secure, scalable backend solutions on AWS and GCP

### IT Analyst Intern

Jan. 2023 – Apr. 2023

*FedEx*

*Collierville, TN*

- Developed Microsoft Power BI dashboards for Agile release tracking, improving visibility and compliance across 100+ projects, reducing manual reporting time by 95%
- Automated project intake and reporting workflows between Digital.ai Agility and Microfocus PPM, cutting report turnaround time from 48 hours to under 10 minutes
- Enhanced Agile release train forecasting accuracy by 25%, supporting data-driven decision-making for resource allocation and program planning

### Undergraduate Security Researcher (REU)

June 2022 – July 2022

*University of North Carolina at Chapel Hill & Intel*

*Chapel Hill, NC*

- Researched web security and identity protection, developing OpenJar—a Google Chrome extension (HTML, CSS, JavaScript) for anonymous browsing
- Collaborated with Intel and UNC researchers to present project outcomes on cybersecurity and data privacy

### Computer Science Tutor

Aug. 2021 – May 2023

*Rhodes College*

*Memphis, TN*

- Mentored students in data structures, algorithms, and object-oriented programming in Java, Python, and C
- Improved average student performance through one-on-one instruction and code review sessions

## PROJECTS

### Raft — Distributed Consensus Implementation | Go

- Built a fully functional Raft consensus algorithm and replicated state machine for distributed systems
- Implemented leader election, log replication, and fault tolerance mechanisms in Go (Golang)

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, Go, C, C#, JavaScript, Swift, HTML, CSS

**Frameworks & Libraries:** Spring Boot, Node.js, .NET, React, Pandas, NumPy, Tailwind CSS

**Cloud & DevOps Tools:** AWS, GCP, Docker, Kubernetes, Kafka, Git, Jenkins, CI/CD, REST APIs

**Data & Databases:** SQL, PostgreSQL, MongoDB, DynamoDB, H2

**Analytics & Reporting:** Power BI, JupyterHub

**Methodologies:** Agile, Scrum, TDD, Continuous Integration, Software Architecture