Ahmad Bishara

Software Engineer Intern / Co-op — Backend & Full-Stack (Java, Spring Boot, AWS)

Boston, MA — (978) 810-7418 — Bishara.a@northeastern.edu — LinkedIn — GitHub — Portfolio

EDUCATION

Northeastern University — Khoury College of Computer Sciences · Boston, MA
Master of Science in Computer Science · *Expected May 2028*
Relevant Coursework: Programming Design Paradigms (CS 5010), Database Management Systems (CS 5200)

Endicott College · Beverly, MA
Bachelor of Science in Computer Science, GPA: 3.5 / 4.0 · *May 2025*

TECHNICAL SKILLS

Summary: Backend and full-stack engineer with experience building scalable services using Java, Spring Boot, REST APIs, and AWS.
Languages: Java, Python, JavaScript/TypeScript, SQL, C++
Core Technologies: Spring Boot, REST APIs, React, Node.js, JWT, OAuth2
Databases: MySQL, PostgreSQL, MongoDB, Redis
Cloud (Applied): AWS (EC2, S3, RDS), Docker
Familiar With: Terraform, ECS, Fargate, DynamoDB, Microservices
Concepts: Object-Oriented Programming, Data Structures, Algorithms, Database Design, API Design

EXPERIENCE

Bioinformatics & Software Development Intern — SynGAP Research Fund (Remote) · Sep 2024 – Jan 2025

- Engineered Python (Pandas) and R pipelines processing 10K+ genomic variants for precision medicine research
- Developed interactive Plotly dashboards for DNA and mRNA mutations, reducing manual analysis time by 80%
- Collaborated with researchers and clinicians to translate genomic data into actionable visual analytics
- Presented analytics platform to 80+ clinicians at SRF 2024 Conference, driving adoption

Research Assistant — Endicott College Cybersecurity Lab · Beverly, MA · May 2023 – Aug 2023

- Led development of 6 modular cybersecurity labs used by 200+ students across 3 courses
- Automated AWS lab infrastructure with Terraform and Docker, reducing setup time by 70%
- Documented lab architecture and workflows for technical and non-technical stakeholders

Software Engineer (Contract) — Female Fan Nation (Remote) · Sep 2022 – Dec 2022

- Refactored React frontend and REST APIs, increasing mobile conversion by 15% and traffic to 50K+ monthly users
- Implemented real-time inventory APIs, improving checkout latency and reducing cart abandonment by 12%

PROJECTS

GamerHub — Java, React Native, AWS, MySQL, OAuth2
github.com/ahmadb123/gamerhub

- Designed and implemented a cross-platform identity system integrating Xbox, PlayStation, Steam, and Discord
- Designed MySQL schemas and synchronization pipelines managing 50K+ cross-platform interactions
- Aggregated 4+ gaming APIs, reducing external API calls by 65%
- Implemented WebSocket chat supporting 1K+ concurrent users with sub-100ms latency

CalmMind — React Native, Spring Boot, MySQL, JWT, OpenAI API
github.com/ahmadb123/calmmind

- Built attachment-theory–based mental health platform delivering personalized interventions
- Integrated OpenAI API for AI-driven conversational support with sub-2s response times
- Implemented JWT authentication supporting 5K+ active user sessions