

AHMAD BISHARA

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SOFTWARE ENGINEER (Full Stack | Java | React | Cloud)

Full-stack engineer with **3 years of applied experience** building scalable web, mobile, and bioinformatics tools using **Java (Spring Boot), React / React Native, Python, and AWS**. Strong foundation in **system design, cloud architecture, and interactive data visualization**. Passionate about creating impactful applications that merge technology, usability, and data-driven insights.

CORE SKILLS

Languages: Java, JavaScript, TypeScript, Python, C++, C#, Lua, SQL, Kotlin

Frameworks: Spring Boot, React, React Native, Node.js, Express, Redux

Cloud & DevOps: Amazon Web Services (ECS, Fargate, RDS, EC2, S3, Lambda, API Gateway, DynamoDB), Docker, Terraform, GitHub Actions, Linux

Architecture: System Design & Architecture, Microservices, REST APIs, OAuth2, JWT, CI/CD

Databases: MySQL, PostgreSQL, MongoDB, Redis

Data & Design: R (Bioinformatics), Pandas, Plotly, Balsamiq, Figma

Practices: Agile, Scrum, Unit Testing, WebSockets

EXPERIENCE

SynGAP Research Fund – Bioinformatics & Software Development Intern

Remote · Sep 2024 – Jan 2025

- Processed **genetic and disease datasets** in Python (Pandas) and R for variant and mutation visualization.
- Extracted and analyzed **DNA/mRNA change data** for SYNGAP1 gene research to support precision medicine efforts.
- Built visual dashboards allowing researchers to explore gene-disease relationships interactively.

Endicott College Cybersecurity Lab – Research Assistant

Beverly, MA · May 2023 – Aug 2023

- Developed **6 cybersecurity modules** used by 200+ students, establishing a reusable learning framework.
- Automated AWS lab provisioning using **Terraform + Docker**, reducing setup time by **70%**.

Female Fan Nation – Software Engineer (Contract)

Remote · Sep 2022 – Dec 2022

- **Modernized React frontend**, boosting traffic by **25%** and mobile conversion by **15%**.
 - Integrated REST APIs for real-time inventory management, improving checkout performance.
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PROJECTS

GamerHub — Unified Gaming Platform · Java | React Native | AWS | MySQL | Azure OAuth2

Developed a **social platform connecting gamers across Xbox, PlayStation, and Steam** via Azure OAuth2. Enabled users to **share clips, chat in real time via WebSockets**, and engage through a community feed—scaling to **1K+ concurrent users**.

College Simulator — Economic Student Life Game · React | Node.js | MongoDB | Redis

Built a **multiplayer college-life simulator** where students manage **virtual finances** for dorms, meals, and books, applying economic logic and budget constraints.

Implemented **real-time interactions and resource updates** using Socket.IO and Redis caching, earning *Best Software Design* award for gameplay scalability.

CalmMind — Mental Health App · React Native | Spring Boot | MySQL | OAuth2

Developed a psychology-based mindfulness app using the ECR-R model for personalized support; implemented JWT-secured authentication and data validation.

EDUCATION

M.S. Computer Science — Northeastern University, Khoury College (Expected 2028)

B.S. Computer Science — Endicott College · GPA 3.5 / 4.0 · Graduation 2025

ADDITIONAL

- Presented bioinformatics visualization tools to **80+ clinicians** at SRF 2024 Conference.
- Expanding expertise in **Kubernetes, GraphQL, and Serverless AWS Architectures**.
- Open to **Full-Stack, Backend, Bioinformatics, or Game Development** roles.