

# 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.

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## 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

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## 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.

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## EDUCATION

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

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

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## 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.