

Alexandra Arbia

Software Engineer | AI Integration • Full-Stack Development

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Education

Bridgewater State University, Bridgewater, MA

May 2026

Bachelor of Science in Computer Science

Undergraduate Certificate in Data Analytics

Honors: Summa Cum Laude

Activities: Upsilon Pi Epsilon; Massachusetts Zeta Chapter Vice-President

Technical Skills

Programming Languages: Java, Python, TypeScript, JavaScript, Kotlin, SQL, HTML/CSS

Frameworks & Technologies: React, Next.js, Node.js, Express, Tailwind CSS, Git, GitHub Actions, REST APIs, React Flow

Databases & Analytics: PostgreSQL, MySQL, SQLite, Room, PowerBI, Tableau

Work Experience

Voxitec, Horana, Sri Lanka (Remote)

Full Stack Software Engineer Intern

June 2026 – present

- Build production-ready web application features using React, Next.js, TypeScript, and Tailwind CSS, translating Figma designs into responsive user interfaces.
- Develop interactive AI workflow interfaces using React Flow, creating scalable and reusable components for production.
- Collaborate with an international startup engineering team through GitHub, code reviews, and asynchronous development practices.
- Research and evaluate AI architecture and emerging technologies, applying new concepts to production software development.

Computer Science Department, Bridgewater State University, Bridgewater, MA

Computer Science Tutor

Sept 2025 – May 2026

- Mentored computer science students in debugging, algorithms, and software engineering concepts, translating complex technical topics into accessible explanations.
- Guided students through debugging, algorithm design, and software engineering concepts while strengthening analytical and problem-solving skills.
- Collaborated with faculty to align tutoring sessions with current course requirements.

Rag & Bone, Boston, MA

Assistant Store Manager

Sept 2019 – June 2022

- Directed daily operations and coached staff of 10 employees using KPI dashboards and performance analytics to drive sales and improve workflows within boutique clothing store.
- Oversaw operational systems and inventory workflow using Salesforce, ensuring accuracy and smooth daily operations.

Operations Supervisor

Feb 2016 – Sept 2019

- Managed shipping, receiving, and inventory management systems, achieving 98% inventory accuracy which was top ranking amongst all locations globally.
- Supported POS and back-office systems, training associates in best practices and improving efficiency.

Projects

Senior Design & Development, Bridgewater State University, Bridgewater, MA

AI-Powered Meeting Room Booking Assistant (Java, Swing, SQLite, Ollama, REST APIs, Django, Git)

Jan 2026 – April 2026

- Built a full-stack voice-controlled meeting room booking application integrating local LLMs, and REST API integration for authentication, room management, and reservations.
- Integrated Ollama hosted local language models, speech recognition, and REST APIs to enable natural language meeting scheduling and backend communication.
- Automated builds and testing using Gradle and GitHub Actions to streamline development workflows.

Emerging Languages (Kotlin), Bridgewater State University, Bridgewater, MA

Recipe Planner Android App (Kotlin, Android Studio, Room, MVVM, Git)

Sept 2025 – Dec 2025

- Developed a full-feature Android app enabling users to create, store, organize, and plan meal recipes.
- Implemented Model-View-ViewModel (MVVM) architecture with reactive state handling.
- Designed relational data models using Room for persistent storage and optimized query operations.