

Hana B. Geremew

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SUMMARY

Full-Stack Software Engineer with 3+ years of hands-on experience designing, developing, testing, and maintaining scalable web applications and APIs. Experienced in building end-to-end solutions using Java, Spring Boot, React, Node.js, TypeScript, and SQL, with strong exposure to microservices, RESTful APIs, Docker, and CI/CD pipelines. Proven ability to optimize backend performance, improve system reliability through unit testing, and collaborate in Agile/Scrum environments to deliver high-quality, production-ready software. Passionate about clean architecture, secure API design, and user-centered development

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript/TypeScript, HTML/CSS, SQL, SpringBoot
- **Frontend:** React, Vite, HTML5, CSS3, Tailwind CSS, Chart.js, D3.js, Apollo Client
- **Backend:** Spring Boot, Node.js, Express, FastAPI, Flask, REST APIs, GraphQL, JPA/Hibernate
- **Databases:** PostgreSQL, MySQL, MongoDB, Supabase, DynamoDB, Redis
- **Cloud & DevOps:** Docker, GitHub Actions (CI/CD), Azure, Google Cloud, Supabase Auth, Linux basics
- **Architecture & Concepts:** Full-Stack Application Design, MVC, Microservices, API Security, Authentication, CRUD Operations, Data Modeling, Agile/Scrum, UX/UI Principles
- **Web Servers:** Apache, Nginx
- **Testing & Tooling:** JUnit, Postman, Git/GitHub, IntelliJ, VS Code, Figma, Adobe XD, Mockito
- **Tools:** Git/GitHub, Figma, Adobe XD, IntelliJ, Docker, Azure, Google Cloud, Kubernetes, Kafka, Zipkin, ELK, Resilience4j, API Gateway
- **Design Patterns:** MVC, Singleton, Prototype, Builder, CQRS
- **Concepts:** UX Research, API Development, Data Structures, Algorithms, Agile/Scrum Methodology.
- **Soft Skills:** Effective Communication, Problem-Solving and Critical Thinking, Team Collaboration, Adaptability and Flexibility Leadership and Mentorship and Time Management and Organization.

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern

EVA IT Consulting Services - Herndon, VA • Summer 2025

- Built and maintained Spring Boot applications by designing and implementing RESTful APIs integrated with SQL databases to support core business workflows.
- Developed and tested full-stack features using Java, Spring Boot, HTML/CSS, and JavaScript in collaboration with cross-functional engineering teams.
- Implemented CRUD operations and optimized SQL queries, improving backend response time and data retrieval performance by ~30–40%.
- Wrote unit tests using JUnit, increasing test coverage and improving application stability while reducing regression issues during deployments.
- Assisted with containerizing applications using Docker, enabling consistent deployments across environments and streamlining debugging in Agile/Scrum workflows.
- Delivered end-to-end features spanning a React frontend, Spring Boot backend, and SQL persistence layer, ensuring seamless data flow and functionality.
- Collaborated on API design, validation, and frontend consumption, applying secure coding practices to support scalable and reliable services.

Full Stack Developer Intern

Blen, Inc - Remote • Summer 2023, 2024

- Designed and implemented GraphQL resolvers, API schemas, and database queries using Node.js and TypeScript to support scalable backend services.
- Integrated React frontend components with GraphQL APIs using Apollo Client, implementing caching, pagination, and robust error handling.
- Improved frontend performance and data consistency by optimizing query structures and client-side state management.
- Collaborated with distributed team members to deliver features in an Agile development environment.

Summer Immersion Program TA

Girls Who Code - Remote • Summer 2024

- Taught foundational computer science concepts (Python, HTML/CSS, JavaScript) to 100+ high school students in a remote learning environment.
- Led hands-on coding projects, resulting in 15+ completed student-built applications.
- Provided mentorship and technical support, helping students build confidence and problem-solving skills in programming.

Tech Fellow

CodePath - Remote • Summer 2023 - Present

- Facilitated workshops on data structures, algorithms, and frontend development, contributing to improved student engagement and learning outcomes.
- Mentored students through technical challenges, debugging sessions, and project development.
- Organized and supported hackathons and coding events, guiding participants on project execution and teamwork.

Graduate Instructional Assistant *UNC Charlotte College of Computing & Informatics CLT, NC • 2023 - Present*

- Assisted 150+ students in ITIS 3135 (Web Development) and ITIS 1110 (Introduction to CS), contributing to a 20% improvement in course pass rates.
 - Supported instructional activities including labs, grading, and technical troubleshooting for web and programming assignments.
 - Contributed to departmental initiatives, including data analysis projects used to inform curriculum improvements.
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EDUCATION

University of NC Charlotte – College of Computing and Informatics

- *Master of Science in Computer Science and IT (GPA: 3.5/4.0) • Expected 2026*
- *Bachelor of Science in Computer Science (HCI) (GPA: 3.6/4.0) • 2024*

Northern Virginia Community College – Alexandria, VA

- *Associate of Applied Science in Computer Science & Programming • 2022*
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PROJECTS

ShopHub – Full-Stack E-Commerce Platform | Java, Spring Boot, SQL, Docker | 2025

- Developed a shopping management system with features for inventory, orders, and payment tracking.
- Designed normalized database schemas and implemented JPA repositories for persistence.
- Built RESTful APIs with Spring Boot to support inventory, orders, and user flows.
- Implemented layered architecture (Controller, Service, Repository) following best practices.
- Containerized backend services using Docker for consistent deployments.

API for Azure AI Text-to-Speech Integration | Node.js + FastAPI + Supabase | 2024

- Built a secure middleware API to access Azure's AI Text-to-Speech service.
- Implemented authentication, request/response handling, and error management for production readiness.
- Added CI/CD pipelines and GitHub documentation, ensuring clean deployments and reproducibility.
- Integrated Supabase authentication and environment-based secrets management.

Chatbot Rental Assistant | Python + Flask + OpenAI API | 2024

- Developed an AI-powered chatbot to assist rental customers with property searches, FAQs, and scheduling.
- Integrated natural language processing (NLP) with OpenAI's API to handle customer queries in real time.
- Connected to a SQL backend to fetch property listings and maintain rental application records.
- Designed conversational flows for customer support automation, reducing manual inquiries by 30%.
- Designed backend architecture integrating AI services, database queries, and REST endpoints for real-time responses.

Personal Budgeting Web App | Node.js, Express, Chart.js, D3.js, Docker | 2024

- Designed a full-stack budgeting app to visualize income/expenses with dynamic charts.
- Integrated REST APIs, JSON-based data storage, and Dockerized deployment for scalability.
- Developed interactive frontend data visualizations and backend APIs to process and serve financial data.

Business Card to CRM Automation Tool | Microsoft Teams App + OCR + OpenAI | 2023

- Created a Teams-integrated app that scans business cards with OCR and auto-fills client profiles.
- Used OpenAI LLM + Microsoft Graph API to generate draft emails and communication workflows.

Twitch Ethnography Research Tool | Python + SQL | 2023

- Conducted a data collection and analysis project on Twitch communities.
- Built scripts to scrape chat transcripts, store in SQL, and generate insights for a class research memo

Portfolio Website | HTML, CSS, JavaScript (Vite) | 2023

- Developed a responsive personal portfolio showcasing projects and experiences.
 - Applied UX/UI principles for navigation, accessibility, and performance.
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LEADERSHIP

Board Member | Charlotte Hack - University of North Carolina at Charlotte • 05/2023 - Present

- Planned 2 annual hackathons with 200+ participants, securing sponsorships from Google and Microsoft.

Tech Fellow | CodePath – Remote • 2023 – Present

- Mentored 30+ students on data structures, algorithms, and frontend development.
- Facilitated workshops and coding events to boost engagement and teamwork.