

William Zinkann

Software Engineer | Boston, MA

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PROFILE

Full-Stack Engineer skilled in Java, Spring Boot, and AWS, with experience building high-performance, scalable applications. Strong background in optimizing APIs, enhancing system performance, and developing RESTful services backed by SQL. Proven ability to streamline CI/CD pipelines and deliver enterprise-grade solutions.

TECHNICAL SKILLS

Languages: Java, Python

Frameworks & Technologies: Spring Boot, Hibernate/JPA, RESTful APIs, Microservices architecture

Databases: SQL (PostgreSQL), Oracle, and DynamoDB

Tools & Practices: AWS, CI/CD pipelines, AI assisted development, Log analysis, Version control (Git), Build tools (Maven/Gradle), Debugging, OOP principles, Agile

EXPERIENCE

Full-Stack Engineer

Jul. 2023 – Jun. 2025

Blue Cross Blue Shield of Massachusetts

Boston, MA

- Optimized API performance and security by refining Apigee proxies, achieving a 25% improvement in response times and maintaining scalable, robust RESTful API operations.
- Utilized containerization and orchestration tools including Docker, Kubernetes, OpenShift, and VMware Tanzu to streamline application deployment and enhance system operability.
- Implemented CI/CD methodologies with tools such as Jenkins, Maven, Jira, ServiceNow, and GitLab to improve development workflows and deployment efficiency.
- Managed and optimized data storage across diverse DBMS technologies, including Oracle, PostgreSQL, and DynamoDB, by designing efficient schemas and tuning performance for high-load environments.

API and EDI Enrollment Intern

Jun. 2022 – Aug. 2022

Blue Cross Blue Shield of Massachusetts

Boston, MA

- Collaborated with the Agile Integration and Interoperability team to design and implement enterprise-wide API solutions using core Java and Spring Boot.
- Developed API and EDI applications with Spring Boot, ensuring clean, scalable, and well-documented code that met business and technical requirements.
- Assisted in modernizing EDI transactions by migrating services to the AWS Cloud and utilizing technologies such as DynamoDB, EC2, CloudFront, and S3.
- Engineered an email REST API service for sending emails via SMTP, demonstrating proficiency in RESTful APIs and cloud deployment.

EDUCATION

Elon University

Aug. 2019 – May 2023

B.S. Computer Science, | Data Science, Statistics minors

Elon, NC

PROJECTS

Portfolio Website | williamzinkann.com

Jun. 2025

- Designed and implemented a scalable static website architecture leveraging Amazon S3 for storage, CloudFront for content delivery and caching, and Route 53 for DNS and domain management, ensuring high availability, low latency, and secure access with HTTPS. **View more projects on website.**

Baseball Game Outcome Prediction Model

Feb. 2025

- Built a modular, reproducible pipeline using Pandas, NumPy, and scikit-learn to predict MLB outcomes and betting results (over/under, moneyline) by engineering features like win/loss streaks, ERA, and run differentials, training models such as logistic regression, random forests, and ensemble learners, and evaluating performance with precision, recall, and ROC-AUC visualized in Matplotlib.

Full Stack RESTful API Patient Tracker Application

Mar. 2025

- Developed a full stack patient tracker with a Spring Boot + MySQL backend (ClearDB-hosted), React/Node.js + Material-UI frontend, and Postman-tested RESTful APIs (@PostMapping, @GetMapping) to provide seamless, scalable tracking of thousands of patient records.