Kane Templeton

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SUMMARY

Backend software engineer with a Master of Computer Science and five years of continuous professional Java development, 2020 to 2025: Spring Boot business applications, a repair shop's systems, and teaching and testing Java at the University of Iowa. Also works in Go and C, and uses AI coding agents daily while testing and owning what ships.

SKILLS

Languages: Java, Go, C, C++, JavaScript, Python, SQL, Bash, Ruby
Backend: Spring Boot, Spring Data JPA, Hibernate, Node.js, REST APIs, WebSockets, TCP/IP, multithreading
Data and web: MySQL, JDBC, schema design, ORM, React, HTML, CSS, WebAssembly
Infrastructure: Linux, Docker, AWS, nginx, Git, CI/CD (GitHub Actions, GitLab CI, Jenkins), Kubernetes basics
Practices: JUnit, RSpec, Cucumber, Playwright, TDD, Agile/Scrum, AI-assisted development (Claude, GitHub Copilot)

ENGINEERING EXPERIENCE

Web & Software Developer, Clinton Lawn and Power, Clinton, IA — Jun 2023 – Jun 2025

- Built and maintained the company website and internal software using Java (Spring Boot), Go, MySQL and React.
- Built an electronic order system with AI camera scanning of tickets, cutting lost tickets by 11% a month.
- Wrote inventory tracking software for the parts department. Out-of-stock parts for the mechanics dropped 33%.
- Added bot-traffic detection to the public parts order form, stopping about 30 spam emails a day.

Lead Systems Engineer, RZ Tech & Web, Iowa City, IA — Jun 2021 – May 2023

- Developed and maintained Java applications for the shop with Spring Boot and MySQL.
- Wrote the shop's repair ticket and support request web app in Java and MySQL, built on JBend (see Projects).
- Led a team of 4 that moved all 47 client WordPress sites from Amazon Lightsail to servers hosted in the store.
- Containerized the sites with Docker behind nginx, and set up the store's Linux server and secure remote access.

Graduate Teaching Assistant, University of Iowa, Iowa City, IA — Jan 2020 – May 2021

- Taught discussion sections for about 60 students in Data Structures (Java) and Computer Architecture.
- Wrote Java programming assignments and exams, and Java programs used as supplemental material for students.
- Designed and built a Jenkins pipeline and the automated Java tests it ran against every student submission.

PROJECTS

JBend | *Java, MySQL, JavaScript* — github.com/kanetempleton/JBend

- Java web framework written from scratch on NIO sockets (Selector, ServerSocketChannel), with my own HTTP and WebSocket (RFC 6455) handlers. No Netty, Jetty or Spring.
- TCP, HTTP and WebSocket servers run in parallel and share one MySQL manager fed by an async query queue.
- Custom ORM maps Java classes to tables and repairs the schema at startup when a class changes.
- Login lockouts, IP bans and an admin console for live connections. Ran RZ Tech's ticket system in production.

Multiplayer C Game | *C, SDL2, OpenSSL, WebAssembly, Go* — kanetempleton.com/play

- Wrote the game server and SDL2 client by hand in C in 2019, on plain sockets and select() with no engine.
- Revived it in 2026 with an AI coding agent (Claude): a WebAssembly build with Emscripten, a Go WebSocket relay, phone support and an in-game world builder. I set the design, tested each build and ran the deploys.

Disaster Relief Management System | *Java, Spring Boot, Spring Data JPA, Hibernate, React, MySQL*

- Graduate software engineering team project run in Scrum iterations: REST API in Spring Boot with JPA/Hibernate on MySQL, a React front end bundled by Webpack in the Gradle build, JUnit tests and a GitLab CI pipeline.

AutoQuote | *Ruby, RSpec, Cucumber, Playwright, Docker, GitHub Actions, Kubernetes*

- Test automation framework for a small quote service: API and browser tests, page objects, CI on every pull request.

EDUCATION

Master of Computer Science (MCS), University of Iowa — May 2023
B.S. Computer Science and B.A. Mathematics, Minor in Business Administration, University of Iowa — Dec 2019