JACOB NEWELL

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EDUCATION

Bachelor of Computer Science, Western Governors University   Expected Dec 2025
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Advanced Data Management, Version Control, Discrete Math

SKILLS

Languages: Java, Python, JavaScript, HTML, CSS
Frameworks/Libraries: Spring, Flask, ReactJS, Bootstrap, MongoDB, Git, PostgreSQL
Certifications: ITIL 4 Foundation, Linux Essentials

EXPERIENCE

Server   May 2023 - Present
The Boiling Crab   *San Marcos, CA*

- Delivered exceptional customer service in a fast-paced environment by accurately taking and fulfilling customer orders.
- Collaborated with team members to manage diverse roles, maintaining smooth operations during peak hours.

Assistant Director   Jan 2022 - Apr 2023
Chick-Fil-A   *Vista, CA*

- Ownership of the Back of House and Front of House Teams.
- Oversaw the opening or closing of the restaurant, including financial reports and inventory management.

PROJECTS

Stock Market Analyzer   (Python, Tkinter, Matplotlib)

- Developed a desktop application using Tkinter to provide stock market analysis with real-time data fetching and visualization.
- Integrated yfinance API to fetch historical stock data and implemented technical indicators like Moving Averages (SMA) and MACD for trend analysis.
- Designed and displayed interactive visualizations with Matplotlib, providing insights on stock performance and generating "Buy", "Sell", or "Hold" signals.

Hotel Booking Platform   (Spring Boot, Angular, PostgreSQL, Docker)

- Enabled users to browse and reserve hotel rooms by building a full-stack application with Spring Boot REST APIs and an Angular frontend.
- Reduced page load times by ~50% by implementing multi threaded services for real-time currency conversion and language translation.
- Demonstrated deployment readiness by containerizing the application with Docker and integrating a PostgreSQL database for persistent storage.

Ecommerce Backend System   (Spring Boot, MySQL)

- Built RESTful APIs in Spring Boot to manage customers, carts, and orders, enabling backend functionality for a full-stack e-commerce application.
- Designed JPA entities and mapped relationships from UML diagrams to MySQL, ensuring data integrity and supporting scalable business logic.