Patrick Klein

Full Stack Developer | B.S. Computer Science

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Summary

Full-stack developer skilled in React, TypeScript, Node.js, Express, and PostgreSQL, with backend experience in Java and Spring. Experienced in building secure authentication, real-time WebSocket features, and automated API documentation. Strong focus on writing reliable, tested code and collaborating in Agile teams to deliver scalable, user-focused solutions.

Education

University of Texas at Dallas

B.S. Computer Science with Mathematics minor | GPA 3.7/4.0

Projects

Survivor Fantasy League

Spearheaded development of a **full-stack web app** enabling collaborative fantasy league play for fans of the reality show *Survivor*

- Built the **frontend** with **React**, **Redux Toolkit**, **TypeScript**, **TailwindCSS**, **React Router**, and **Vite** for a responsive, performant user experience.
- Developed **secure user authentication** using **JWTs** supporting signup, login, logout, session management, and protected APIs.
- Created a **scalable backend API** with **Node.js**, **Express**, **TypeScript**, and **Sequelize ORM** managing a **PostgreSQL** database for efficient data operations and business logic.
- Automated **API specs** and client SDKs using **OpenAPI 3.0,** streamlining **frontend-backend integration** and improving documentation accuracy
- Ensured **backend reliability** with **integration and unit tests** written in **Jest**, focusing on critical business logic and data integrity.
- Integrated **AWS S3** for media storage with **caching** to limit redundant image fetches, reducing bandwidth and keeping API call usage within free tier limits.

Work Experience

Logic Information Systems | Software Developer | Apr 2021 - Aug 2024
Associate Consultant of the Year (2021)

- Developed and maintained scalable **backend services** for **Oracle Xstore POS**, extending functionality and resolving bugs for **1000+ retail stores** using **Java, Spring, and SQL** — ensuring alignment with business needs and system capabilities.
- Integrated Xstore POS with external **Order Management, Promotion, and Loyalty systems** via **RESTful and SOAP APIs**, enabling secure, real-time service communication for legions of customer accounts with robust error handling.
- Led debugging and resolution of **EFTLink payment issues** by analyzing logs and collaborating closely with external authorization providers, reducing transaction failures by **85%.**

- Designed and delivered **PDF operational reports** using BI Publisher and Word templates, authoring and optimizing custom **SQL queries** in **Oracle** and **SQL Server** to provide actionable retail insights on sales, labor, and inventory.
- Improved code quality and team productivity through active **code reviews** and promotion of best practices in an **Agile Scrum environment**. Managed workflows in **Jira** and **GitHub** by creating tickets, linking commits, and tracking progress in daily standups to support timely, cross-team delivery.
- Translated client requirements into clear specs, user stories, and dev tasks. Set realistic expectations through daily client interactions, accelerating feature delivery.

Skills

Languages: Java, Javascript, Typescript, SQL, HTML, CSS
Frontend: React, Reduc Toolkit, TailwindCSS, React Router, Vite
Backend: Node.js, Express, Spring, Sequelize
Soft Skills: Agile collaboration, client communication, cross-functional teamwork, problem-solving