

May Riley

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Summary

Innovative full-stack developer with 8 years of experience building high-impact products using JavaScript, TypeScript, Python, React, Next.js, and Django. Delivered multiple successful launches in **CRM**, **B2B SaaS**, and **Marketing automation**, driving measurable gains in user engagement and product performance. Known for turning complex requirements into fast, scalable solutions and accelerating delivery for cross-functional teams. Brings a strong product mindset and a track record of shipping features that move key metrics.

Skills & Abilities

- **Languages:** JavaScript, TypeScript, Python, SQL
- **Frontend:** React, Next.js, React Native, Redux, MUI, Tailwind CSS
- **Backend:** Node.js, Express, NestJS, Django, Django REST Framework
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis
- **API:** REST API, GraphQL, Swagger
- **Cloud & DevOps:** AWS, Azure, Docker, CI/CD, GitHub Actions, Docker

Experience

Senior Software engineer / Microsoft / SEP 2023 – Present

- Designed and developed web applications for a Community Engagement Platform (CEP), implementing reusable UI components and scalable front-end applications using **React**, **Next.js**, **TypeScript**, **Redux Toolkit**, **Zustand**, and **Tailwind CSS**, ensuring clean, maintainable, and testable code aligned with established coding standards.
- Built high-performance backend systems for CEP using **Node.js**, **NestJS**, **Express.js**, applying microservices, event-driven architecture, and REST API patterns to improve scalability, modularity, and performance optimization across distributed services.
- Developed a full-featured Advertising Automation Platform, integrating **Python**, **Django**, **Django REST Framework**, and **GraphQL** to support advanced content delivery workflows and complex data modeling requirements.
- Engineered real-time automation flows using **Redis**, **RabbitMQ**, and event streams, enabling distributed processing and reducing campaign execution time for large advertiser datasets.
- Implemented robust API integration workflows across third-party marketing tools and internal microservices, ensuring secure communication, consistent data transformation, and comprehensive Swagger-based **API documentation**.
- Delivered full-stack development for mobile features using React Native, enabling seamless cross-platform user engagement and consistent UX across web and mobile applications.

- Modernized and expanded capabilities of existing accounting software, migrating legacy modules to a service-based architecture and improving database data models for accuracy, performance, and maintainability.
- Built automated test suites using **Jest**, **Django test frameworks**, and integration tests within **CI/CD pipelines** to ensure high reliability and facilitate faster releases.
- Designed and maintained cloud infrastructure on **AWS** and **Google Cloud**, leveraging services such as Lambda, EC2, SQS, S3, Cloud Run, and managed databases to support resilient distributed systems.
- Containerized services with Docker and orchestrated deployments via **GitHub Actions**, enabling repeatable, automated, and efficient **CI/CD workflows** and zero-downtime deployments.
- Collaborated closely with product management, designers, QA engineers, and stakeholders to translate **business requirements** into detailed **technical specifications**, ensuring alignment throughout end-to-end product development.
- Produced comprehensive **software documentation**, including architectural diagrams, API references, test strategies, and deployment guides, supporting knowledge sharing across engineering teams.
- Participated in structured **Agile methodologies**, contributing to sprint planning, refinement, retrospectives, and peer **code reviews** to maintain engineering quality and continuous improvement.
- Drove **performance optimization** initiatives across front-end and back-end systems, including caching strategies, query optimization, bundle size reduction, and asynchronous processing, improving overall product responsiveness and reliability.

Technologies: React, Next.js, TypeScript, NestJS, Node.js, Express, PostgreSQL, MongoDB, Redis, AWS (ECS, RDS, Lambda, S3, CloudFront), OpenAI API, Socket.io, Firebase, Docker

Full stack engineer / Google / Apr 2020 – August 2023

- Scaled an e-commerce platform serving **70K+ business customers** and **250K+ monthly orders**, sustaining **15K+ concurrent users** during peak events with zero downtime.
- Built a responsive storefront using **Next.js and TypeScript**, improving reliability and developer productivity.
- Developed a comprehensive **React + TypeScript** admin panel for inventory, order management, and CRM operations.
- Developed a responsive **React + Material UI** POS interface with **Redux**, enabling fast and error-free order processing.
- Implemented **event-driven architecture** using **AWS SNS/SQS**, enabling real-time inventory sync across **100+ warehouses**.
- Designed and deployed a **webhook integration system** connecting to **SAP ERP** and multiple retail **POS systems**.

- Built a robust pricing engine supporting **volume discounts, negotiated pricing, promotions, and dynamic rules**.
- Deployed platform on **AWS (EC2 Auto-Scaling, RDS PostgreSQL Multi-AZ, S3, CloudFront)** with production-grade observability.
- Delivered a **React Native** mobile app for a **100K+ SKU** catalog, downloaded by **30K+ business customers**.
- Implemented **offline-first cart** with Redux Persist, enabling uninterrupted order building without connectivity.
- Optimized mobile performance, reducing app launch time by **70%** and memory usage by **50%** via lazy loading, image optimization, and virtual scrolling.
- Reduced inventory discrepancies between online/offline channels from **12% → 1.8%** through improved sync workflows.

Technologies: React, React Native, TypeScript, Django, Django REST Framework, Node.js, Express, PostgreSQL, MongoDB, Redis, AWS (EC2, RDS, S3, SNS/SQS, CloudFront), Firebase, Algolia, Socket.io

Frontend Developer / Apple / Oct 2018 – Mar 2020

- Built and scaled a **cloud-based multi-tenant restaurant management platform** for an 8-location chain supporting **200+ daily staff users**.
- Implemented a real-time **Kitchen Display System (KDS)** using **Socket.io**, improving communication between front-of-house and kitchen teams.
- Created an inventory module with **automated low-stock alerts**, supplier ordering workflows, and usage analytics.
- Built a reporting dashboard covering **sales, labor costs, inventory performance**, and operational insights.
- Deployed the system on **AWS (EC2, RDS MySQL, S3)** with automated backups and scalable architecture.
- Achieved significant operational improvements: **85% reduction in order-processing errors** and **40% reduction in food waste**.
- Developed a full-featured **school management platform** using **React**, supporting **600+ student records**.
- Implemented automated **ReportLab-based PDF report card generation**, reducing preparation time from **2 weeks to 2 days**.
- Built a parent notification system for **grades, attendance, and announcements**, improving communication and engagement.

Technologies: React, Vue.js, JavaScript, Node.js, Express, Django, Django REST Framework, MySQL, PostgreSQL, AWS (EC2, RDS, S3), Socket.io, Material-UI, Redux, Vuex

Soft Skills

Ability to work independently, Fluent communication, Detail-oriented

Education

B.S. IN COMPUTER SCIENCE | JUN 2013 – JUL 2017

RELEVANT COURSEWORK

Data Structures and Algorithms, Database Management Systems, Software Engineering, Web Development, Object-Oriented Programming, Computer Networks, Operating Systems