

ZAID SHISHANI

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SUMMARY

Software Engineer with hands-on experience building, optimizing, and maintaining full-stack web tools end to end. Currently at Black Oasis, working across the stack with React, Node.js, MySQL, and Redis, and partnering directly with VPs and directors to translate specific business needs into delivered systems. Experienced owning projects through requirements gathering, planning, implementation, and maintenance, including real-time services with WebSockets. Strong foundation in REST APIs, relational databases, and scalable system design.

EXPERIENCE

Software Engineer, R&D

Black Oasis | Jan 2025-Current

- Implementing a role-based access control authorization (RBAC) system to enforce a fine grained permissions across internal web applications.
- Built an internal HR system to automate employee onboarding, leave tracking, and performance monitoring.
- Drove a frontend refactoring initiative, proposing and aligning with management on migrating legacy components to a standardized React architecture.
- Optimized a slow multi-column search query cutting the response time by 90% by casting search inputs to their correct data types and targeting the indexed columns, so the database used existing indexes instead of scanning every column.
- Cached onboarding form schemas and reference data in Redis, eliminating repeated look ups of rarely changing configuration on every form load.
- Partnered directly with VPs and directors to streamline workflow highly specific business needs, gather requirements for then planned, implemented, and maintained the resulting.
- Built a digital media service with React and Node.js/Express, delivering live streaming, real-time live updates over WebSockets, and rotating data-representation slides for on-screen dashboards.
- Collaborated cross-functionally with product and design teams to improve system usability and maintainability.
- Streamlined and automated internal workflows across engineering and operations.

Freelance Software Engineer

AUTOM | Mar 2024-Oct 2024

- Built a configurable management-system engine with React and Supabase, designed so a UI layer can plug on top to serve different types of businesses.
- Developed reusable modules including inventory and booking systems.
- Handled requirements gathering, implementation, and delivery directly with clients.
- Adapted the engine into a working car-wash management system.

Infrastructure & Cybersecurity Internship

Scientific & Medical Supply | Jul 2024-Sep 2024

- Provisioned and managed user accounts across internal systems, including access control.
- Set up networking and server configuration.
- Assisted in monitoring and maintaining networked applications and internal IT infrastructure.

TECHNICAL SKILLS

JavaScript, TypeScript, Java, Python, React, Next.js, React Native, Node.js, Express, Spring Boot, SQL, Redis

EDUCATION

Bachelor of Software Engineering

Applied Science Private University (ASU)

Software Engineering Diploma

Luminus Technical University College (LTUC)

Software Development Bootcamp (Code 201, Code 301)

Code Fellows