

SHAYAAN SUFI

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EDUCATION

University of Waterloo

Bachelor of Applied Science in Honours Computer Engineering (Co-op)

Sep 2023 – Expected Apr 2028

Waterloo, ON

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, C, C++, HTML/CSS

Web & Backend: React, Next.js, Node.js, Django REST Framework, REST APIs, Playwright

Data & Tools: PostgreSQL, MongoDB, Supabase, AWS S3, Docker, Git/GitHub, Linux

EXPERIENCE

Wind River

Software Engineer Intern

Jan – Apr 2026

Ottawa, ON

- Integrated **EDK2 UEFI firmware** into the **Wind River Hypervisor** as a virtual-machine bootloader, enabling guest execution through the UEFI SEC, PEI, and DXE boot phases.
- Developed an **x86-64 bootstrap** responsible for firmware loading, memory initialization, stack setup, and serial diagnostics before transferring execution into guest firmware.
- Debugged complex boot failures by tracing **x86 exceptions, firmware relocation, and guest physical-memory layouts**, isolating memory overlap responsible for nested **#UD/#GP** crashes.

ShareSFR

Full-Stack Developer

May – Aug 2025

Remote

- Rebuilt the Sagan investor portal using **Next.js, TypeScript, and Django REST APIs**, replacing legacy admin dashboards with a production React architecture.
- Developed **cash-flow ingestion** and **P&L dashboards** supporting 500+ active investor accounts, integrating backend ingest pipelines with dynamic schema validation.
- Implemented frontend workflows for financial reporting and property data, connecting reusable React components to backend APIs and asynchronous ingestion pipelines.
- Automated financial-statement ingestion from a third-party property-management system without public APIs using **Playwright**, navigating dynamic workflows and uploading files directly to **AWS S3**.

Dematic

Frontend Developer (DITA CCMS Administrator)

Sep – Dec 2024

Waterloo, ON

- Built and maintained enterprise **web dashboards** on FluidTopics for internal content delivery used by 10,000+ employees across 15 global teams.
- Supported structured content and frontend delivery workflows across internal engineering teams, improving the organization and accessibility of technical documentation.
- Automated XML ingestion, schema validation, and report generation using **Python** and Oxygen XML Editor, reducing manual QA time by 35%.

PROJECTS

Gaslytics | *React, TypeScript, Node.js, TwelveLabs, Supabase*

Jul 2025

- Developed an **AI-driven video analytics platform** for detecting conversational manipulation using TwelveLabs multimodal video embeddings.
- Built interactive **timeline and transcript dashboards** with React, REST APIs with Node.js, and authentication, uploads, and persistent application data using **Supabase**.
- Designed end-to-end video-analysis workflows connecting uploads, backend processing, stored results, and interactive frontend visualizations.

Visionize | *Next.js, TypeScript, MongoDB, Cloudinary, Stripe*

Apr 2024

- Built a full-stack **AI image-processing SaaS platform** using Next.js and TypeScript, supporting image restoration and object-removal workflows through Cloudinary.
- Integrated **MongoDB** for persistent application data, **Clerk** for authentication, and **Stripe** for payment and usage flows.
- Structured application logic into modular frontend, API, database, and service layers to support authenticated image uploads and transformations.