Shaan Dussoye

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Full-stack engineer with experience constructing durable market data systems, real-time analytics dashboards, and enterprise-grade UI components for finance and productivity. Aspiring to solve real business problems in finance and technology through modular, scalable, secure, and collaborative development.

INTERNSHIPS & EXPERIENCES

Application Developer Intern   Mar 2025 - Present
Rabbit Credit Limited (Private Credit)

- **In-House Loan Management System (LMS):** Projected to reduce manual data entry time for employees **by 40%** enabling operations staff to focus on client service and reducing the risk of costly input errors.
- Led cross-functional front-end development for new Loan Management System, collaborating with backend engineers and business stakeholders to deliver seamless integration of user requirements and technical architecture.
- Supervised and mentored an intern, delegating feature tasks and providing technical guidance, resulting in accelerated delivery and improved code quality.
- Wrote endpoints to communicate with Hong Kong's Credit Reference Platform for TransUnion and other Credit Providers.
- Authored and implemented a technical onboarding guide that reduced new **developer ramp-up time by 50%**, enabling faster contribution to production systems and minimizing support queries.
- **Frameworks:** Java Springboot, Jacoco, JUnit, React, Redux, GitHub Actions, Docker, PowerShell, MySQL, Nginx, vite

Full-Stack Software Engineer Intern   Jun 2024 - Aug 2024
Alpha Sherpa Capital Management (Hedge Fund)

- Migrated broker analytics from Jupyter to a production web app, empowering real-time, data-driven analysis of broker position accuracy by region, sector, and position.
- Built a modular ETL pipeline with Celery, **cutting report analysis latency by 50%** and enabling instant access to pre-processed broker data for traders.
- Re-architectured the Tickers search interface to deliver fast, intuitive lookup by ticker/date, dynamic OHLC candlestick charts, and real-time broker rating overlays with interactive, filterable analysis.
- Optimized backend API and integrated live Refinitiv data, **cutting endpoint latency by 80%** and enabling fast display of **200k+ broker reports** with sentiment and broker filters.
- Automated broker crawler scheduling by migrating from Windows to Linux, deploying Celery, cron, and Docker for fully asynchronous operations, **boosting uptime by 40%** and enabling real-time monitoring and on-demand task control via FastAPI endpoints and Flower dashboard.
- **Frameworks:** Typescript, NextJS, React, Sass, AGGridReact, MongoDB, Windows Task Scheduler, TailwindCSS

PROJECTS

Market Data Dashboard [GitHub]   Aug 2025

- Built a full-stack Next.js dashboard for **real-time US equity analytics**, integrating Yahoo Finance (live prices/history), Alpha Vantage, and Finnhub APIs for robust multi-provider data sourcing.
- Implemented **resilient back-end workflows** with custom error handling, live WebSocket streaming, and Supabase caching for optimized data performance and reliability.

Dussy Components - npm package [GitHub]   Jul 2025

- Developed and published a React component library (dussy-components) on npm, featuring a dynamic form generator, financial summary cards, and progress visualization tools, all built with TailwindCSS and ShadCN-UI.
- Engineered a **schema-driven form builder** that supports multi-section layouts, live validation (Zod, React Hook Form) and easy extensibility for enterprise dashboards.
- Ensured full accessibility, customization, and clean documentation, accelerating front-end productivity for complex data-driven UIs.

EDUCATION

HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY   Aug 2022 - Dec 2026
BEng in Computer Science (**Dean's List Fall 2023**)

- **Certifications:** HackerRank Python, HackerRank JS, HackerRank Frontend Developer (React)

ADDITIONAL

- **Language Skills:** English (Business Professional), French (Intermediate), Mauritian Creole(Intermediate)
- **Work Authorization:** Mauritius (Citizen), Hong Kong (Student Visa)