HASSAN SOHAIL

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with 2+ years of experience building production web platforms across Django REST Framework, React/TypeScript, and cloud/IoT systems. Delivers scalable APIs, real-time data pipelines, and payment integrations end to end — from database and system design through deployment on Microsoft Azure. Currently engineering the backend and partner-facing tooling for a smart parking startup, spanning payments, IoT sensor networks, and analytics dashboards.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C++
Backend: Django REST Framework, Celery, Node.js, Express.js, FastAPI, MQTT, WebSockets, REST API design
Frontend: React.js, Next.js, Redux, Zustand, React Native, Tailwind CSS, GSAP
Data & Cloud: PostgreSQL (incl. PostGIS), MongoDB, MySQL, Microsoft Azure (App Service, Functions, Storage), Docker
Integrations: Stripe, Square, Marqeta, Google Maps API, LoRaWAN/TTN/ChirpStack, OAuth, Webhooks

EXPERIENCE

Software Engineer — Popcurb *Sep 2024 – Present*
Remote — New York, USA | Smart parking & curb-management platform

- Engineer and maintain core backend services (**Django REST Framework, Celery**) powering parking permit workflows, authentication, and automated notifications for a live parking platform.
- Design and implement secure **payment processing** (Stripe) supporting pay-on-exit and merchant transactions, from checkout through settlement.
- Build backend and admin tooling for a fleet of **IoT/LoRaWAN sensors**, covering device configuration, firmware updates, and real-time monitoring over MQTT.
- Ship key features on the partner-facing **analytics dashboard** (React/TypeScript) — interactive maps, transaction views, and role-based reporting used by city and merchant partners.
- Manage and optimize **cloud infrastructure on Microsoft Azure** (App Service, PostgreSQL, Functions, Storage) — deployments, scaling, monitoring, and production issue resolution.
- Maintain and improve the public-facing website (Next.js), handling migrations, DNS/infrastructure changes, and cross-browser reliability.

Frontend Apprentice — Shispare *3 months*

- Built production UI features with React, Tailwind CSS, PrimeReact, and React Native, including work on Ceva Logistics' 3PL warehouse-management dashboard used across the UK.

Intern, Software Engineer — Sybrid Private Limited — A Lakson Group Company *Sep – Oct 2022*

- Developed a product management system with a rich-text description editor and real-time product-sharing via WebSocket push notifications; contributed to code reviews.

SELECTED PROJECTS

- **SuperRay** — GAN-powered medical image super-resolution platform (undergraduate thesis) improving diagnostic clarity of X-rays and CT scans. Next.js, Django REST Framework, PostgreSQL, Azure.
- **BizDeals** — full-stack marketplace platform for buying and selling businesses, with integrated Stripe payments. React, Django REST Framework, Microsoft Azure.

EDUCATION

Bachelor of Engineering, Software Engineering — NED University of Engineering & Technology *2020 – 2024*
CGPA 3.30/4.0 | Thesis: SuperRay — GAN-based medical image super-resolution

CERTIFICATIONS

- Meta Back-End Developer Professional Certificate — Coursera (Aug 2023)
- Meta Front-End Developer Professional Certificate — Coursera (Jul 2023)