Santino Borzellino

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PROFILE SUMMARY

A results-oriented and pragmatic Senior Full-Stack Engineer with a strong front-end focus, adept at delivering impactful, high-quality software that is clean, maintainable, and scalable, both independently and as a key contributor within collaborative team environments. My career showcases a blend of entrepreneurial initiative, demonstrated by founding and solely building two live SaaS platforms: UAE-Vetwork and My Garage Manager, alongside deep experience driving significant technical advancements, shaping critical enterprise systems, foundational software, and mentoring technical teams within technology companies. I approach complex issues with creativity and resourcefulness, and my passion for software engineering and a commitment to excellence, particularly in crafting aesthetically pleasing and robust user interfaces, are evident in every project.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Node.js, Rust, HTML, CSS/LESS/SASS, SQL

Frameworks & Libraries (Front-End): React, Angular, Next.js, Opus UI, Tailwind CSS, Shadcn UI, Astro, RxJS, Redux/Context API, Formik, Yup, React Hook Form, Zod, Vite, GoJS, Plotly.js, D3.js, Material UI, Bootstrap

Frameworks & Libraries (Back-End): FastAPI, Express.js, Bun, ElysiaJS, SQLModel, Drizzle ORM

Databases: PostgreSQL, Supabase, MongoDB, MySQL

Cloud & DevOps: Netlify, Heroku, Docker, GitHub Actions (CI/CD), Google Workspace (Email/DNS Admin)

Developer Tooling: Language Server Protocol (LSP), vscode-languageserver/client, VS Code API, Commander.js, Inquirer.js, Degit, Jest, ESLint, Prettier, pnpm, npm/NPX, Vite, Drizzle Kit

APIs & Protocols: RESTful APIs, JWT, Webhooks (Svix), Stripe API, DVLA APIs, SMTP

Concepts: Full-Stack Architecture, SaaS Product Development, B2B Platforms, CRM Systems, E-commerce, API Design, Database Design, UI/UX Design Excellence, Agile Methodologies, PWA Development, MEAN/MERN Stacks, Data Privacy & Security (GDPR), Modular Design, Performance Optimisation, SEO, Product Ownership, Technical Mentorship, Open-Source Contribution, Code Review Best Practices.

ENTREPRENEURIAL VENTURES & KEY PROJECTS

Co-founder & CTO | UAE-Vetwork   https://uae-vetwork.com

- Solely conceived, architected, designed, developed, and deployed a full-scale B2B SaaS recruitment platform in an intensive 3-month period, connecting veterans/first responders with UAE/GCC employers.
- Achieved rapid user adoption (scaling to 1000+ active users within 1 month of launching), receiving positive feedback for stability and impact.
- Engineered the full-stack solution using Next.js (App Router, RSC, Server Actions), React, TypeScript, Supabase (PostgreSQL), Drizzle ORM, Clerk (Auth & User Management), Uploadthing (Secure File Storage), and Stripe (Payments).
- Developed a comprehensive internal CRM, candidate dashboards with dynamic data capture (React Hook Form, Zod), consent-driven matching, premium paid career services module, and automated communications (Resend, React Email).

- Managed all aspects from technical vision and product roadmap (incorporating data privacy principles) to scalable infrastructure (Supabase Pro, Netlify Pro for low latency), secure custom domain email systems (Google Workspace, DNS: MX, SPF, DKIM, DMARC), and ongoing platform evolution.

Founder & Full-Stack Developer | My Garage Manager   https://mygaragemanager.co.uk

- Independently conceived, architected, developed, and deployed a production-ready SaaS application for automotive garages over 6 months, intentionally without AI assistance to validate core engineering capabilities. Currently live and actively acquiring users.
- Built a React SPA front-end (TypeScript, Vite, Tailwind CSS, Shadcn UI, Recharts, React Big Calendar) and a high-performance asynchronous Python/FastAPI back-end with PostgreSQL (SQLModel ORM, Pydantic Validation).
- Engineered custom JWT authentication (Python-JOSE, Bcrypt/Passlib), tiered Stripe subscription integration (Checkout, Billing Portal, Webhooks with signature verification), and DVLA API integration (VES & MOT History) with robust data transformation.
- Developed core features: complex configurable Booking System (drag-and-drop, rule-based optimisation), integrated CRM & Vehicle Management, Automated Communications Suite (APScheduler for MOT/Tax reminders), Fleet Management, and Analytics Dashboard.
- Implemented Docker containerisation, production deployment to Heroku (Gunicorn), CI/CD with GitHub Actions, and SEO pre-rendering (React Snap).

PROFESSIONAL EXPERIENCE

2023–present: Senior Software Engineer | Intenda UK   https://opus-ui.com

- Instrumental in architecting the ongoing evolution of the open-source Opus UI React framework, driving its transition to a modular, multi-package ecosystem; an active contributor since its initial creation, focusing on enhancing maintainability, scalability, and community contribution.
  - Engineered custom Vite build configurations and meticulously managed complex package.json dependencies across the library ecosystem to ensure reliable build, packaging, and release processes for its modularisation.
  - Refactored and extended numerous existing Opus UI libraries for compatibility with the modular architecture and Language Server requirements.
  - Enhanced critical internal tooling (e.g., opus-ui-packager) to support the evolving framework architecture.
- Architected, engineered, and published the open-source **Opus UI Language Server** & **VS Code Extension** using LSP, TypeScript, & AST manipulation, providing context-aware completions, diagnostics, and hover support, significantly improving in-house developer experience and now publicly available on the VS Code Marketplace.
- Engineered and published the **Create Opus UI App** CLI tool using Node.js, Commander.js, Inquirer.js, Degit & Vite to npm, simplifying project scaffolding.
- Providing technical leadership and acting as product owner for the Fraxses LegoZ platform (used by large financial institutions): ensuring high availability, stability, optimising large-scale visualisation components (thousands of nodes, complex layout algorithms), engineering specialised logic for complex Union Field handling, defining front-end integration strategy for new Rust back-end services, and implementing RBAC security.
- Led development and provided key technical guidance for Deloitte:
  - Advised Deloitte's back-end teams on structuring FastAPI endpoints for optimal Opus UI JSON definition generation and data-driven development principles.
  - Delivered in-depth Opus UI technical support and expert guidance to Deloitte's front-end developers, enabling effective application construction.
  - Architected and developed a bespoke Deloitte Component Library using Opus UI.

- o Solely engineered and delivered two key Opus UI applications: the "Maturity Assessment" platform (comprehensive assessment framework management, interactive user assessment interface, Yellowfin reporting integration) and the "Strategy Tracker" (for managing internal code exceptions).
- Enhanced developer productivity and framework adoption through dedicated mentoring, creating video tutorials, and authoring comprehensive documentation (opus-ui.com). Actively participated in code reviews, providing valuable feedback to maintain high code quality.
- Contributed to the front-end development and ongoing technical maintenance of the opus-ui.com website.

2020–2023: Software Engineer | Intenda UK

- Led the architectural migration and ground-up redevelopment of the Fraxses LegoZ data platform from Angular 4 to a modern React & Opus UI system, utilising Opus UI's "components as data" paradigm to enhance maintainability, scalability, and performance.
  - o Developed "opus-ui-legoz," a library of complex, LegoZ-specific React components and custom Opus UI script actions.
  - o Developed and published reusable, JSON-defined Opus UI ensembles for Fraxses LegoZ.
- Key contributor to core Opus UI framework development: enhanced its engine, state management/scoping system, built opus-ui-components (React), developed reusable JSON-defined ensembles, contributed to its theming system, and built JavaScript "helper" script actions.
- Architected and built internal developer tools: "Drag and Drop Dashboard Builder" (React/Opus UI with live preview & validated JSON generation) and "Opus UI JSON Schema Generator" (Node.js with PropSpec transformation & hierarchical validation).
- Mentored engineers on Opus UI best practices, conducted code reviews, established technical best practices, and supported enterprise integrations (Deloitte, Bridge).
- Ensured high framework quality via performance optimisation and comprehensive Jest testing.

2019–2020: Software Developer | Intenda UK

- Instrumental in implementing significant platform enhancements for Fraxses LegoZ (Angular 4, RxJS), including UI redesigns and merging the "FlowZ" ETL engine (GoJS).
- Showcased expertise in dynamic user interfaces by leveraging Go.js for visualisation components (FlowZ Builder, Object Builder, Data Pedigree) and resolved bugs across Angular 4 front-end and C# back-end.
- Adapted and integrated Apache Superset (React), applying custom theming and feature development.

2017–2018: Junior Software Developer | Fraxses Limited

- Contributed to UI/UX enhancements for Fraxses LegoZ (AngularJS, Angular Material) and Fraxses AnalyticZ (HTML, CSS, JavaScript, jQuery).
- Developed the "LegoZ Event Builder" (API management UI with JsPlumb drag-and-drop canvas) and demonstrated proficiency in data visualisation by migrating D3.js charts to Plotly.js, enhancing the interpretation of large datasets.
- Resolved full-stack defects (AngularJS, C#) and collaborated on back-end debugging involving stored procedures.

EDUCATION

2015–2019: First Class Honours, Computer Science | University of Leicester

- Included a one-year industry placement at Fraxses Ltd (2018).
- Final-Year Project: "FlowZ: ETL Specification Builder" – a secure, full-stack MEAN application (Angular 4, Node.js/Express, MongoDB, JWT) with GoJS visualisations, developed for Fraxses Ltd. and later integrated into their commercial platform.