Alessandro Barzanti

Senior Full Stack TypeScript Developer — React / Node.js / Cloud / AI

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SUMMARY

Senior Full-Stack Engineer with 20+ years delivering scalable, production-ready web applications with React, Next.js, Node.js, and cloud-native architectures (AWS, GCP, Azure). Expertise in modern TypeScript-based stacks, API-first development, serverless systems. Currently exploring LLM integrations and AI-enhanced UX with TypeScript and Vercel AI SDK.

Seeking remote contract roles in high-impact product teams building modern cloud and AI-enhanced applications.

CORE COMPETENCIES

- React (Next.js, Vite, Hooks-based, modern state management)
- Cloud-native architectures (AWS Lambda / GCP Cloud Run / Azure Functions)
- GraphQL & REST API design
- Testing: Playwright, Vitest, Jest
- CI/CD with GitHub Actions, Terraform, Docker, Kubernetes
- Platform Modernisation & Migration (legacy to cloud-native)
- TypeScript everywhere (Node.js, React, infra-as-code)
- Currently prototyping AI-enhanced product features using OpenAI API and Vercel AI SDK

TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python
- **Frontend:** React, Next.js, Vite, MaterialUI, HTML5, CSS, Zustand
- **Backend:** Node.js, GraphQL, Supabase, Serverless Framework, FastAPI, Prisma, REST APIs
- **Databases:** PostgreSQL, DynamoDB, BigQuery, ClickHouse, MongoDB, Redshift
- **Cloud Platforms & DevOps:** AWS (Lambda, EC2, VPC, Kinesis, S3, Route53), Azure, Google Cloud (GCP), Terraform, CI/CD (GitHub Actions), Docker, Kubernetes
- **Testing:** Playwright, Cypress, Vitest, Jest
- **Other Tools:** Stripe, InversifyJS (IoC), Webpack, Vercel AI SDK

WORK STATUS

- Based in Italy (Rome)
- UK/IT Dual citizenship
- Direct invoicing ability

PROFESSIONAL EXPERIENCE

NewDay, *London/Remote — Lead Full Stack Engineer (Contract)*   *Sep 2023 – Mar 2025*

- Joined as Lead Engineer for the team managing internal and third-party fraud and dispute case software within the Fintech sector.
- Collaborated closely with product and design teams to strategically plan and execute a complete system rewrite, contributing to an anticipated 20% improvement in processing efficiency.
- Led a team of 4 engineers in maintaining and enhancing legacy software while spearheading the development of a new product, resulting in the on-time delivery of over 15 new features.
- Oversaw planning and approval for 12 major releases and 50+ minor updates, consistently meeting 99.9% uptime and other key performance indicators.

  Technologies: React, Vite, MaterialUI, TypeScript, GraphQL, NodeJS, Azure.

Ambassador Theatre Group, *London/Remote — Lead React Engineer (Contract)*   *May 2022 – Aug 2023*

- Served as Engineering Lead for the "Catalogue" team of 5 developers, improving team velocity by 15% through agile process refinements.
- Successfully delivered end-to-end development for 6 new US sales websites within a 12-month period, leveraging a shared design system to ensure brand consistency and reduce development time by an estimated 50%.
- Directed the planning, implementation, and ongoing maintenance of the company-wide design system, adopted by 4 development teams and leading to a 30% reduction in UI inconsistencies.

  Technologies: React, Next, MaterialUI, Style Dictionary, GraphQL, AWS Serverless (Lambda, API Gateway, DynamoDB).

UsTwo, *London — Senior/Lead Frontend Engineer (Contract)*   *Dec 2021 – Apr 2022*

- Led a frontend engineering team of 4 developers, delivering the beta platform 2 weeks ahead of schedule.
- Engineered the end-to-end development of a complex beta platform, designing a scalable frontend architecture that supported thousands of concurrent users during initial testing.
- Developed critical core platform features, including real-time match-making and chat functionalities, central to achieving an expected user engagement increase of 40%.

  Technologies: React, Next, GraphQL, Prisma, AWS Serverless (Lambda, API Gateway, DynamoDB).

Scale8, *London — Co-CTO*   *Mar 2020 – Oct 2021*

- Spearheaded the end-to-end development from concept to open-source launch and commercial cloud solution, securing #5 Product of the Day on Product Hunt.
- Architected and implemented the UI achieving highly positive early user feedback on usability.
- Designed and managed CI/CD pipelines using GitHub Actions, streamlining the release process and reducing deployment times by 25%.
- Engineered the API backend with TypeScript and InversifyJS, exposing a documented GraphQL schema and integrating with services like Google BigQuery, Stripe, and AWS S3.

- Delivered a full-featured payment system with support for multiple subscription products and invoice generation.

    Technologies: TypeScript, React, GraphQL, Next.js, Node.js, Java (Micronaut), MongoDB, Google Cloud (Cloud Run, BigQuery).

Arqiva, London — Senior Software Engineer (Contract)   *May 2019 – Mar 2020*

- Played a key role in designing the Freeview Play product, brokering metadata transport between content providers and device manufacturers.
- Drove the adoption of AWS Lambda to implement a serverless architecture, modernizing the infrastructure and streamlining deployment and scalability, migrating on-premise services to AWS and improving system scalability and reducing operational costs by 30%.
- Produced new and redesigned existing Freeview Play features, delivering multiple time-critical initiatives for manufacturer testing.

    Technologies: TypeScript, AWS Serverless (Lambda, API Gateway, DynamoDB).

UK Contracting, London   *2010 – 2019*

- Senior Full Stack Developer across multiple UK companies, including LifeWorks, Venatus and Ogilvy.

- Earlier career as a Software Engineer in Italy (2000–2009)

OPEN SOURCE CONTRIBUTIONS

Scale8 Tag Manager - Co-Creator & Lead Developer

- A privacy-first, GDPR, CCPA, and PECR compliant open-source Tag Management and Analytics solution.
- Achieved #5 Product of the Day on Product Hunt, highlighting its innovation and community interest.
- **Key Contributions**: Co-architected the full-stack serverless solution, led UI development (React, Next.js, MaterialUI), and designed the GraphQL API. Drove the project from initial concept to open-source release and an accompanying commercial cloud offering.

Technologies: TypeScript, React, GraphQL, Next.js, Node.js, Java (Micronaut), MongoDB, Google Cloud (Cloud Run, BigQuery).
Repository: https://github.com/scale8/tag-manager
Documentation: https://scale8.github.io/docs

EDUCATION

Università di Bologna, Italy — BSc Computer Science   *Graduation Year - 2002*