

Catalin Magirescu

Senior Software Engineer & Technical Lead
Co-Founder @ Cat Apps & Plantopia Farm

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Raunds, Northamptonshire, UK

Portfolio: catapps.co.uk

Technically advanced and solutions driven React and Next.js Engineer with extensive experience developing scalable web applications and driving digital transformation initiatives. Expertise in architecting micro frontend solutions, implementing robust CI/CD pipelines, and leading complex integrations. Skilled in React, Next.js, React-Native, TypeScript, GraphQL, AWS infrastructure, monorepo strategies, Node.js backend integration, and strategic stakeholder management. Proven success leading cross-functional teams to deliver complex projects efficiently, within time and budget constraints, significantly enhancing user experience and business outcomes.

Areas of Expertise

- React.js, Next.js & TypeScript Development
- React Native Development & Architecture
- Micro frontends & Monorepo Architectures
- AWS Infrastructure & CI/CD Automation
- API Design & Complex Integrations
- Digital Transformation & Strategic Technical Leadership
- User Experience Enhancement
- Project Management & Team Optimization

Professional Experience

Cat Apps, Northamptonshire, United Kingdom
Co-Founder & Technical Lead

2008 – Present

Co-founded and led a full-service software consultancy specializing in AI-driven solutions, scalable web/mobile applications, cloud infrastructure, CMS, and complex integrations. Provided technical leadership in Next.js, TypeScript, React, React Native, Node.js, GraphQL, DevOps, and AI/ML implementations.

Key Accomplishments:

- Architected AI-driven agriculture platform (Plantopia Farm) leveraging Next.js, TypeScript, React Native, Node.js, GraphQL, and advanced machine learning.
- Built integrated e-voucher systems for Northamptonshire Council & CIC Charity using React, Node.js, TypeScript, and extensive third-party integrations.
- Rebuilt Shaderware, an AI-powered 3D X-Ray web app for medical universities, significantly improving performance and usability using React, TypeScript and Three.js.
- Delivered impactful Next.js, React, TypeScript, GraphQL, and Node.js solutions with strategic AI integrations for fintech (Nationwide, Raiffeisen, ING) and industry clients (BMW Education, TfL, Syngenta, Greater Glasgow Police, Tideway, Siemens).
- Developed high-performance websites using modern headless CMS, Next.js, TypeScript, and AI-driven optimizations, surpassing traditional platforms like WordPress.
- Optimized cloud infrastructure and DevOps (Cloudflare, AWS, Docker, Varnish, CloudFront, Google Cloud Platform), enhancing performance, security, and scalability.
- Led technical rearchitecting and AI modernization initiatives, increasing user engagement and business growth.

Virgin Atlantic, Surrey, United Kingdom
Technical Lead (Contract via James Chase)

2024 – Present

Led digital transformation initiatives, implementing Next.js micro frontends, TypeScript, React, GraphQL APIs, and Turborepo monorepo architecture. Delivered strategic integrations (Delta, Allianz, Synchrony, Virgin Red) and architected secure Hosted Payment Pages. Contributed to AI integrations, supporting post-pandemic profitability.

Key Accomplishments:

- Next.js micro frontend and Turborepo monorepo migration using TypeScript and React, improving scalability and developer productivity.
- Strategic partner integrations leveraging GraphQL APIs, enabling successful product launches.
- Delivered secure Hosted Payment Pages via CellPoint Digital, enhancing customer experience and security.

- AI integration initiatives supporting return to profitability post-pandemic.
- Technical leadership for new native mobile app initiatives, ensuring seamless integration and user experience.

Checktrade, London, United Kingdom
Senior Software Engineer & Mobile Platform Leader

2022 – 2024

Played a pivotal role in transforming user experience and enhancing platform functionality. Provided technical leadership in Next.js, TypeScript, React, React Native, GraphQL, and Node.js, migrating to SPA architecture.

Key Accomplishments:

- Delivered financial SaaS features (quoting, subscription management) using React, TypeScript, and GraphQL, driving annual revenue growth by £11.6M.
- Migrated platform to single-page application using React Native Web, Next.js, TypeScript, GraphQL, and Node.js, improving page speed by 35% and tripling user engagement.

Fuse Universal, London, United Kingdom
Senior Software Engineer & Integration Lead

2018 – 2022

Led automation of development and CI/CD processes for multilingual React and React Native applications, integrating LMS and LXP features.

Key Accomplishments:

- Expanded global user base from 600k to 4.6M through scalable React, React-Native and Node.js solutions.
- Transformed digital learning experiences, significantly increasing user engagement.

Hevnly, London, United Kingdom
Software Engineer Lead

2017 – 2018

Led a team of four engineers in designing and developing responsive web applications using Vue.js, React, and Node.js. Provided mentorship, technical training, and strategic direction to optimize workflows and consistently deliver projects ahead of schedule.

Zinc Media, London, United Kingdom
Software Engineer

2015 – 2017

Developed responsive web applications using React, Node.js, WordPress, Three.js, and GSAP for renowned brands including BBC, BMW, and Siemens, consistently exceeding client expectations.

Education

- Master's Degree in Automation Engineering (Mechatronics & Robotics), University Politehnica of Bucharest, RO
- Bachelor's degree in management information systems, University George Bacovia of Bacau, RO

Certifications

- AWS Certified Cloud Practitioner, Developer Associate, DevOps Engineer Professional (in progress)
- Docker Certified Associate, Python Certified Associate (in progress)
- Google Cloud Infrastructure & Core Services – Coursera
- React & Next.js 14+ Complete Guide – Academind
- TypeScript for Professionals – Basarat
- React Native Advanced Bootcamp – Zero to Mastery
- MERN Stack E-Commerce Mobile App – BlueBits Academy
- Node.js Complete Guide (MVC, REST APIs, GraphQL, Deno) – Academind
- GitHub & GitHub Actions Professional Certificate – LinkedIn Learning
- Digital Banking & Fintech Masterclass – Udemy
- IT Contracting & IR35 – IT Contracting Academy
- Webpack Academy – Skills Matter London, Frontend Masters