

CATALIN MAGIRESCU

SENIOR SOFTWARE ARCHITECT & ENGINEER
Mastery in React, React Native and Cross-Platform development

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SKILLS

Front-end Development

Mobile Application Management

User-centred Design Execution

Attention to Detail

Clear Communication

Automated Testing

Component Libraries

EXPERTISE

- React Native Web
- TypeScript
- Git
- Node.js
- Tailwind CSS
- 3D JS libraries (Three.js, D3.js)
- Unit testing with Jest
- Schema creation with Zod
- Firebase
- RESTful Services and APIs
- EAS, CircleCI, Bitrise, Fastlane
- UI/UX enhancement tools
- Lottie and Tamagui frameworks
- Managing component libraries and design systems



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PROFILE

Driving Project Success with Design, Management, and Development Expertise

With a robust 16-year tenure in front-end development, my core expertise lies in **React Native Web**, underpinned by a deep understanding of **TypeScript**. My technical proficiency extends to unit testing with **Jest**, **Zod** schema and leveraging **Firebase** and **RESTful** services through **TanStack Query** (FKA **React Query**). I excel in end-to-end testing frameworks such as **Appium** and **Detox** and am a staunch advocate for solid automation practices, including seamless **CI/CD** pipelines with tools like **Expo AS**, **CircleCI**, **Bitrise**, and **Fastlane**. My web design expertise sharpens my **UI/UX** skills, enabling me to craft engaging interfaces with tools like **Figma**, **Zeplin**, **Canva**, and **Marvel**. I am skilled in **Node.js**, **Vue.js**, **Redux**, **Tailwind CSS**, and **3D JavaScript** libraries like **Three.js** and **D3.js**. I specialize in building **component libraries** and **design systems** with **Lottie** and **Tamagui**, streamlining development as an independent contractor passionate about delivering perfect features, innovating on personal projects, and promoting ongoing learning and growth.

WORK EXPERIENCE

March 2008 - Present

FOUNDER & CTO

CAT APPS | Remote | United Kingdom, EU & USA

- Founded a tech company delivering mobile and web solutions, with expertise in **React Native**, **React.js**, **Node.js**, and **CI/CD** integration.
- Lead projects leveraging 16+ years of experience, focusing on **TypeScript** and **React Native Web** development.
- Convert **UI/UX** designs to high-performance applications, ensuring scalability and design fidelity using tools like **Figma** and **Zeplin**.
- Implement testing and automation frameworks such as **Jest**, **Zod**, **EAS**, and **CircleCI** to enhance development workflows.
- Oversee end-to-end testing with **Appium** and **Detox**, and **BrowserStack**, maintaining high standards for software quality across multiple browsers and platforms.
- Direct online brand identity projects, manage creative teams, and foster a culture of innovation and continuous learning.
- Utilise cutting-edge technologies like **React**, **Vue**, and **Tailwind CSS**, and maintain libraries with **Lottie** and **Tamagui** for consistent development practices.
- Recently founded **Plantopia Farm**, an innovative start-up applying technology to urban agriculture, aiming to transform city living with sustainable farming practices.



EDUCATION

Sep 2005 - Jun 2011

**MASTER'S DEGREE IN
AUTOMATION ENGINEERING
(MECHATRONICS & ROBOTICS)**

University POLITEHNICA of Bucharest

Sep 2003 - Jun 2007

**BACHELOR'S DEGREE IN
MANAGEMENT INFO. SYSTEMS**

University GEORGE BACOVIA of Bacau

CERTIFICATION

Jul 2022 - *Zero To Mastery Academy*

**COMPLETE REACT NATIVE
BOOTCAMP (WITH HOOKS)**

Jul 2022 - *Coursera*

**GOOGLE CLOUD INFRA.:
FOUNDATION & CORE SVCS.**

Jan 2021 - *Udemy*

**MERN STACK E-COMMERCE
MOBILE APP - REACT NATIVE**

Nov 2020 - *Udemy*

**NODEJS - COMPLETE GUIDE
(MVC, REST APIS, GRAPHQL, DENO)**

Feb 2019 - *Udemy*

**REACT NATIVE:
ADVANCED CONCEPTS**

Jul 2018 - *Skills Matter London*

**WEBPACK ACADEMY:
BEGINNER TO MASTER
(EXPERT SEAN LARKIN)**

Aug 2011 - *Avantaj Consulting*

**ADVANCED WEB DESIGN AND
PROGRAMMING COURSES**

INTERESTS

Technology Innovation

Open Source Contribution

UI/UX Design

Charity Work

WORK EXPERIENCE - CONTINUED

January 2022 - January 2024

SENIOR SOFTWARE ENGINEER

CHECKATRADE | Remote | London, United Kingdom

- Focused on front-end development, providing mentorship and coaching junior, mid and senior engineers, fostering their professional growth and promoting a culture of continuous learning.
- Led the design and development of complex software systems, ensuring adherence to coding standards and best practices.
- Collaborated with cross-functional teams to gather and analyse requirements, resulting in the successful delivery of high-quality software solutions.
- Identified and resolved technical challenges and performance bottlenecks, optimizing software performance and scalability.
- Transformed UIs using **React Native Web** with full user experience redesign to release a beta MVP in 8 months, improving the page speed by 35%, decreasing debugging time by 53%, and increasing user usage by more than 300%.
- Worked with product managers to re-architect the users' multi-page web app into a single-page application and developed two native apps for **iOS** and **Android** using **React Native Web**, while integrating SaaS features, boosting yearly revenue by £11.6M.

February 2018 - January 2022

SENIOR SOFTWARE ENGINEER

FUSE UNIVERSAL | Remote | London, United Kingdom

- Focused on designing and developing robust web and mobile applications.
- Coordinated with various squads to maintain infrastructure and participated in agile ceremonies delivering complex layouts and ensured the quality of code through rigorous testing and reviews.
- Re-architected a Ruby-on-Rails web app into a single page application by implementing **React** micro frontend apps.
- Developed a **React Native** multilingual app with offline capabilities, merging LMS and LXP features for essential learning delivery.
- Implemented automated CI/CD, unit, and E2E testing, scaling from 600k to 4.6 million users across clients such as **Avon**, **Lotus**, **Volvo**, and **Hilti**.

July 2017 - February 2018

SOFTWARE ENGINEER LEAD

HEVNLY | Hybrid | London, United Kingdom

- Developed responsive enterprise web applications using **Vue**, **React**, **Redux**, and **Node.js**.
- Maintained Backbone-Marionette apps and provided training and coaching for junior and mid developers.
- Managed front-end architecture, including pull request reviews, post-merge deployments, and releases.

October 2015 - July 2017

UI SOFTWARE ENGINEER

ZINC MEDIA | Onsite | London, United Kingdom

- Built intuitive and seamless web applications by collaborating with cross-functional teams.
- Contributed to projects for renowned clients such as **BMW**, **TfL**, **Nationwide**, and **Siemens**.
- Ensured code quality across multiple technologies including **HTML5**, **CSS3**, **JavaScript**, **PHP**, and **Ruby**.