

Alessio Prestileo

Senior Software Engineer

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Profile

Senior Software Engineer with 9+ years of professional experience, specializing in React, TypeScript, and scalable frontend architecture. Proven track record delivering high-quality web and mobile applications, mentoring engineers, and collaborating with product/design teams to build intuitive, performant solutions. Experienced in both greenfield projects and legacy projects, with a rigorous analytical foundation from an initial career in computational structural engineering (numerical simulation software in Python/C++).

Core Competencies

React · ReactNative · TypeScript · NodeJS · Modular Software Architecture · Design Systems · Scalable UI · Performance Optimization · CI/CD · Automated Testing · Mentorship · Product Collaboration · Angular · Vue · Python · C++ · Haskell · PureScript · Elm

Technical Skills

- **Languages:** TypeScript, JavaScript (ES6+), Python, C++, HTML5, CSS3, Haskell, PureScript, Elm
- **Frontend & Mobile:** React, React Native, Angular, Vue, Design Systems, Responsive UI, State Management
- **Backend & Architecture:** Node.js, REST APIs, Modular Architecture, Micro-frontends, Clean Architecture
- **DevOps & Testing:** CI/CD (GitLab CI, GitHub Actions), Git, Jest, React Testing Library, Webpack, Vite
- **Leadership:** Engineering Mentorship, Code Reviews, Technical Hiring (~50 interviews conducted), Agile/Scrum

Work Experience

Senior Software Engineer

Forsta AS / Qualtrics · 2020–Present (6 yrs)

- Served as the principal point of contact for TypeScript expertise: authored coding standards, led architecture reviews, and mentored junior/mid-level engineers.
- Co-engineered and scaled a company-wide design system (~50 UI components in React) adopted across multiple engineering squads, standardizing UI patterns and reducing frontend feature development time.
- Spearheaded large-scale TypeScript refactoring across a 500k-LoC codebase, eliminating un-typed boundaries and reducing runtime errors by 50%.
- Revamped CI/CD pipelines and internal tooling, increasing test automation and cutting merge request lifetime by 50%.
- Built and delivered features end-to-end, partnering with PMs and designers to balance performance, maintainability, and product impact.
- Designed coding challenges, standardized evaluation rubrics, and assessed ~50 engineering candidates in technical interviews.

Senior Software Engineer

Zirius AS · 2018–2020 (2 yrs)

- Developed an ERP web application and a cross-platform expense claim mobile app using React, React Native, and TypeScript.
- Implemented and maintained design system, coding conventions, and automated CI/CD deployment pipelines.
- Led frontend team initiatives, conducted code reviews, and mentored engineers.

Software Engineer

07 Media AS · 2017–2018 (1 yr)

- Developed and maintained websites using Angular, Vue, Drupal, and WordPress.
- Key contributor to production sites including speiding.no and tradisjonsmat.no.

Structural Engineer

DNV · 2011–2016 (5 yrs)

- Performed non-linear finite element calculations to assess the ultimate strength of marine structures.
- Developed custom numerical simulation and non-linear finite element calculation software using Python and C++.

Certifications & Professional Development

- Master Class in Software Architecture — taught by Robert C. Martin ("Uncle Bob")

Education

- **M.S. in Naval Architecture and Marine Engineering** — University of Genoa, Italy — 2011
- **B.S. in Naval Architecture and Marine Engineering** — University of Genoa, Italy — 2008