Benjamin Karlsson
Senior Frontend & Fullstack - Software Engineer

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5+ Years of professional experience developing scalable, modern and responsive full stack React and typescript web applications and analytical tools and products in automotive and health industries.

PROFESSIONAL EXPERIENCE

ECARX GROUP Gothenburg/Remote, Sweden
Senior Full-stack Engineer - Big Data Analytics Team   **2021-2023**

- **Developed a full-stack application** with a **React** and **TypeScript** frontend, and a scalable Kubernetes containerized backend in Golang using Docker and NGINX. Integrated REST APIs in Golang with Axios to interact with multiple REST and GraphQL APIs.
- Tool to monitor code delivery from 800+ repositories of the AOSP (Android Open Source Project) manifest, including virtual and physical test rigs.
- Led the design and frontend development of the web application from the ground up, including research and feature creation. Collaborated remotely and autonomously with stakeholders, designers, and developers to ensure project success.
- Designed and optimized a high-performance graph interface using React Flow, reducing the number of required views by 10 and enabling real-time tracking of code progression for 70+ developers.
- Created a Login solution for user authorization/authentication using Golang, React TypeScript, and Microsoft Azure.
- Deployed gating functionality in GitLab using Python, checking criterias, test coverage and traceability, which improved developer responsibility and code quality. Increased the number of repositories tested by +100%.

AstraZeneca Gothenburg / Remote, Sweden
Senior Frontend Developer - Web Portal Team   **2020-2021**

- Digitalized clinical trials with a modern, responsive, and accessible React web application in TypeScript, reducing paper waste and shortening the time to market of pharmaceutics with 2 years.
- Integrated tools such as CMS, IDP, authorization, authentication, and role management.
- Added new features while collaborating remotely with 25 senior developers and cross-functional teams.
- Integrating 15+ REST API endpoints and developed data parsing in frontend.
- Designed and styled web components and managed an extensive UI/component library, enhancing code simplicity, reusability, and design coherence while reducing redundancy.

SKF (Svenska Kullagerfabriken AB)   **Gothenburg, Sweden**
Software Engineer - Design System Team   **2019-2020**
Frontend Developer - Analytics Team   **2018-2019**

- Built an SPA industrial analytics solution using Automated Machine Learning (AutoML) to continuously analyze Big Data from asset sensors with React.
- Rebuilt and optimized web app performance, virtualizing tables of Big Data to handle 1000+ rows, reducing a 4-second lag, and significantly enhancing user experience.
- Participated in and led scrum meetings, daily standups, retrospectives, and planning sessions.
- Evangelized a design system and component library with Material UI, deployed as an npm package used globally, reducing color and styling variations by 90%.
- Led 90+ IT professionals in a company event, significantly boosting employee engagement and satisfaction.

EDUCATION

Umeå UNIVERSITY   **Umeå, Sweden**
Bachelor in informatics, design, innovation & interaction   **2014-2017**

- Event Chairman at UMSYS, Project Management of newcomers week and regular events.
- Completed 1 semester Study Abroad at Bradford University (ERASMUS)

Military Training   **2014**

- Award: Well suited for continued service in the Armed Forces (Only 4 awarded at Pluton) (Top 2%)

ADDITIONAL INFORMATION

- **Technical Skills:** HTML/CSS, **Javascript, Typescript, React**, **React Hooks**, Redux, **Next.js,** TailwindCSS, Material UI, Vercel, Jest, Cypress, Testing Library, Unit tests, Storybook, Golang, Python, Node.js, REST, GraphQL, SQL, MySQL, PostgreSQL, Docker, Kubernetes, Amazon AWS, Microsoft Azure DevOps, CI/CD Pipeline, **Git**, GitLab, OAuth, Front-End, Back-End Programming
- **Languages**: **Fluent in English & Swedish**
- **Certifications**: Unqap, Advanced Learning Techniques (2022)
- **Awards**: Open Hack Gothenburg (2017); Won the title "Best social/humanitarian impact" out of 80+ participants