Morgan Rector | Software Engineer

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PROFESSIONAL EXPERIENCE

User Interface Software Engineer, Amber Kinetics — May 2023–Present

- **Improved application performance by 70%** and **reduced page load time by 35%** within the first 6 months by optimizing React component rendering, implementing memoization, and utilizing code splitting with React and TypeScript.
- Led the **migration of multiple large-scale React codebases** from React 16.4 to React 18+, resulting in a **30% decrease in runtime errors** and enhanced maintainability.
- **Developed, tested, and deployed 45+ new features**, including cloud integration for a previously desktop-only application, a secure authentication system, and real-time data visualization for 4Hz live streaming data.
- **Designed and authored a comprehensive 40+ page software manual** for both engineers and customers.
- **Crafted and conducted multiple company-wide presentations** on new software features and led software Q&A sessions.
- **Led the complete frontend design** of a new internal application using TypeScript, React, and Redux, delivering a fully functional, intuitive UI within 3 months, significantly improving user experience (UX) through seamless navigation and modern UI/UX principles.
- Contributed to **backend development of new internal application** by designing and implementing a **REST API** with C# and ASP.NET Core, ensuring efficient data flow and robust application performance.

Volunteer Artificial Intelligence Hackathon Judge, San Francisco Bay Area, August 2024

- Evaluated and **judged projects at an AI-focused Hackathon** dedicated to social good, providing constructive feedback to participants and fostering innovative solutions aimed at addressing societal challenges through technology.

Stevenson School, Director of Activities and Science Teacher, Pebble Beach, California — Jul 2021 – Jun 2022

- **Created and taught innovative curricula** for Principles of Scientific Inquiry (chemistry, physics, biology) and Marine Science, achieving a **100% course recommendation rate** from students.
- **Mentored and guided over 50 student research projects**, including technical subjects like Machine Learning and Pathfinding, fostering critical thinking and technical skills.
- **Coordinated large-scale events** (Carnival, Culture Fair, Prom), driving a **20% increase in student engagement**

OceansMicro, Co-Founder, Assistant Director and Program Manager, Santa Cruz, CA — Oct 2020 – Oct 2022

- **Co-founded a science education nonprofit**, delivering programs both nationally and internationally, with a focus on promoting ocean conservation.
- **Led and managed a diverse team** of 8 scientists, students, teachers, and interns to create engaging educational content, resulting in increased awareness and participation in conservation efforts.

Tesla, Inc., Operations Advisor and Sales Advisor, Monterey, CA — Nov 2020 – Jul 2021

- **Built and expanded a new Delivery Operations Team**, achieving nearly 100% team growth quarter over quarter while managing the heaviest volume quarter in Tesla's history at the time.
- **Organized and facilitated the delivery of 1,000+ Tesla vehicles** in Monterey and Santa Cruz counties, receiving a **95% customer satisfaction rating** from customers.

SKILLS

HTML5, CSS, DOM, TypeScript, React, React Component Optimization, React-MUI, Redux, D3.js, DevExpress, Responsive Design, UX/UI Design, Data Visualization, Data Streaming, Webpack, Electron.js, Node.js, Express, REST APIs, C#, ASP.NET, ASP.NET Core, PostgreSQL, MongoDB, SQL, Ruby, Rails, AWS, Git, Documentation.

EDUCATION

App Academy San Francisco, California *Curriculum of Study in Web Development (JavaScript and Ruby on Rails)* October 2022; October 2022 – January 2023

California Polytechnic State University, San Luis Obispo San Luis Obispo, California *Bachelor of Science in Psychology, Focus in Biological Sciences. Cum Laude Scholar, GPA 3.69* Class of 2019