PETER PERPICH

FULL-STACK PRODUCT ENGINEER

Address:

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TECHNICAL SKILLS

Frontend Development

Frameworks & Libraries: React, React Native, Angular, Next.js
Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3 (Flexbox, Grid)
Styling & UI Systems: Tailwind CSS, NativeWind, Joy UI, Skia
State & Animation: MobX, Reanimated

Databases & Cloud

Databases: PostgreSQL, MySQL, Firebase Firestore
Hosting & Cloud: Vercel, AWS (EC2, S3),

Developer Tools

VS Code, GitHub Copilot, Windsurf Git, Figma, Postman

Backend Development

Languages & Frameworks: Python (Django/DRF), Node.js/Express, PHP, Java
Auth & API Design: Firebase Auth, REST APIs, JWT, OAuth2
Realtime & Messaging: MQTT, RabbitMQ, WebSockets
State & Animation: MobX, Reanimated

DevOps & Tooling

Containers & Infrastructure: Docker, Docker Compose, Traefik
CI/CD & Builds: GitHub Actions, EAS (Expo), Vercel
Monitoring & Analytics: Sentry, Mixpanel

PROFESSIONAL EXPERIENCE

Sifly

Technical Lead (Contract) · 2024 – Present

- Led a team of full-stack engineers to design and build a new web application for drone mission management from the ground up
- Architected the entire cloud backend (Django) and frontend (React + Joy UI), enabling real-time telemetry, live video, and multispectral image viewing
- Built a robust simulator framework and real-time telemetry pipeline that routes data to PostgreSQL, WebSocket clients, and third-party APIs
- Collaborated cross-functionally with embedded engineers, UX designers, and stakeholders to align Figma-based design systems with scalable, accessible, and internationalized UI components
- Set up Jira workflows, CI/CD with GitHub Actions, and dev environments to support rapid iteration and testing
- System is live and actively demoed to potential customers and investors

ChargePoint Technologies

Staff Software Engineer · 2011 – 2024

- Led the development and enhancement of diverse applications spanning technologies like React, Angular, Vanilla JS, PHP, and jQuery, catering to varied user bases from drivers and business customers to internal teams. Occasionally engaged with JAVA-based systems for necessary modifications.
- Drove the team's successful transition from legacy jQuery to more modern Angular and React frameworks.
- Orchestrated the design and implementation of Angular and React applications, with a keen focus on internationalization and ensuring accessibility compliance.
- Forged strong collaborations with UX and Product teams, delivering accurate estimates and offering pivotal technical insights.
- Initiated the adoption of data visualization tools and streamlined development processes through Dockerized environments.
- Crucial contributor in strategizing and executing system architecture revamps and adeptly troubleshooting intricate technical challenges.

KEY CONTRIBUTIONS

Deep Domain Expertise and Cross-Team Collaboration:

- Serve as the primary expert on system's UI and core functionalities, regularly supporting multiple teams in understanding and maneuvering both modern and legacy systems.
- Led the strategic transition from legacy systems to modern application architectures, ensuring a seamless user experience and improved system performance.
- Lead troubleshooting efforts, particularly for intricate challenges rooted in our legacy system, ensuring swift problem resolution and enhanced system reliability.
- Handpicked by leadership to tackle and resolve complex customer support tickets that necessitate an in-depth system understanding, contributing significantly to customer satisfaction and loyalty.

Innovative Tracking and System Insight:

- Overhauled mixpanel tracking to delve deeper into user experiences, identifying the core user concern as successful vehicle charging and optimizing application insights accordingly.
- Introduced, championed, and evangelized the use of Sentry for backend API error tracking. Implemented trace IDs to streamline root cause analysis, significantly reducing the time spent on diagnosing frontend errors.
- Played a pivotal role in setting up domain-specific tracking systems to enhance user experience analytics.

Developer Environment Optimization:

- Architected and established a local developer environment using Traefik as a reverse proxy, enabling independent frontend operation in tandem with diverse backend session environments.

APPS & PROJECTS

The Living Breath

Founder / Developer 2024 - Present

- Designed, built, and launched a guided breathwork app using React Native, Skia, and Reanimated
- Architected a backend with Django and Firebase Auth for secure, cross-platform support
- Implemented configurable breathing exercises with sound cues, hold timers, and real-time animations
- Integrated RevenueCat for in-app subscriptions; supported Apple TestFlight and Android beta testing
- Focused on mental wellness, habit formation, and physiological performance tracking

EDUCATION

- NodeProgram.com – Node.js, React, MongoDB (2016)
- UC Santa Cruz Extension – Java EE (2007)
- San Jose City College – Computer Science Major (2000)

ADDITIONAL EXPERIENCE

- Fat Spaniel / Power-One – Web App Engineer (2006–2011)
- Sentaff Inc. – Web App Developer (2002–2006)