

Bartlomiej Tyrpien

West Orange, NJ | Bartlomiej.tyrpien@gmail.com | (201) 212-8572 | Tyrpien.com

SUMMARY

Full stack product engineer with 10+ years of experience building products across web, mobile, and desktop. Works across React, TypeScript, APIs, and PostgreSQL, partnering with product and design from prototype through production. One of two frontend engineers who took Kraken Pay from 0 to 1; independently built and launched Telemetry Studio to 250+ monthly active users and paying customers.

SKILLS

Frontend: TypeScript, JavaScript, React, Next.js, React Native, Redux, design systems, Figma

Backend & Data: Node.js, NestJS, REST APIs, GraphQL, PostgreSQL, Python, Django, Flask, WebSockets

Product & AI: UI/UX, product analytics, A/B testing, Mixpanel, OpenAI APIs, Claude Agent SDK, MCP

Quality & Delivery: Jest, React Testing Library, Cypress, GitHub Actions, Docker, AWS, GCP

EXPERIENCE

Product Engineer - Charlie Labs | February 2026 - Present

- Build user-facing React and TypeScript dashboards and orchestration for configuring, monitoring, and managing autonomous AI workflows and long-running coding-agent tasks.
- Build agent-driven features with Claude Agent SDK, OpenAI tool use, and Model Context Protocol (MCP), designing the frontend and API contracts that support them.
- Partner with product and design to prototype and ship customer-facing AI features, redesign onboarding and activation, and run experiments to guide product iteration.

Freelance Software Engineer | January 2025 - February 2026

Tensora.com - Full Stack Engineer | June 2025 - February 2026

- Built the TAO Coinbase integration from the ground up in React Native, including GraphQL queries and mutations for TAO data flows and Coinbase interactions.
- Reworked the React Native swapping modal and implemented Bittensor-related optimizations across the app.

Modulo Finance - Senior Software Engineer | January 2025 - June 2025

- Built the platform with Next.js, React, TypeScript, and NestJS, defining frontend/backend API contracts, building REST APIs, and tuning PostgreSQL queries and indexes.
- Developed authentication with Single Sign-On (SSO), passkeys, and multi-wallet account management using Turnkey SDK; integrated wallet connectivity with Reown AppKit.
- Built portfolio dashboards and transaction flows for lending, borrowing, and staking; integrated Mixpanel to support onboarding, conversion, and feature-adoption analysis.
- Led frontend architecture with 2 direct reports and built a shared shadcn/ui component library and design token pipeline to standardize the platform.

Software Engineer - Kraken Digital Asset Exchange | February 2022 - November 2024

- Took Kraken Pay from 0 to 1 across web and React Native as one of two frontend engineers; led Cryptowatch SSO integration, contributing to 63% of new signups within two months.
- Owned Accounts and Payments GraphQL queries and mutations, reviewed every domain GraphQL change, contributed to federated API architecture decisions, and built REST APIs.
- Improved charting and watchlist performance by approximately 50% through React optimization and virtualization; raised automated test coverage from 20% to 80% with Jest, React Testing Library, and Cypress.
- Authored RFCs and technical specifications, coordinated cross-team launch timelines and dependencies as engineering DRI, and participated in formal on-call.

Front End Software Engineer - Caesar's Digital | October 2020 - February 2022

- Directed React and Redux feature development for the flagship casino and sportsbook; modernized UI/UX to simplify complex gaming workflows.
- Authored technical specifications, coordinated cross-team launch timelines and dependencies, and participated in formal on-call; mentored junior frontend developers.
- Developed and maintained hybrid mobile functionality with Cordova and Xcode; improved frontend architecture and engineering standards.

Full Stack Software Developer - Xogene Services | October 2019 - October 2020

- Built pharmaceutical data visualization applications for clients including Biogen with React, GoJS, ElasticSearch, and Django; developed backend APIs in Python.
- Led phased TypeScript adoption and frontend direction with 2 direct reports; authored and maintained Jest and Cypress test suites.

Front End Web Developer - EarthCam | October 2018 - October 2019

- Built React interfaces for real-time, WebSocket-driven enterprise video surveillance, including TVs and large-screen displays.
- Designed a custom React video player with timeline navigation and event-based playback; guided 2 junior engineers through technical direction and code review.

Full Stack Software Engineer - YouShallThrive Inc | March 2017 - October 2018

- Shipped frontend and backend features for a pet health platform using React, Flask, SQLAlchemy, and PostgreSQL; resolved production issues and mentored 3 engineering interns.
- Built a Stories-style social feature to support user engagement.

PROJECTS

Telemetry Studio - Founder & Solo Developer | January 2025 - Present | telemetrystudio.com

- Founded and launched a revenue-generating desktop product for cycling and endurance-sports video overlays, owning frontend, backend, rendering, licensing, payments, and deployment.
- Designed the complete UI/UX and built a real-time engine synchronizing telemetry overlays to video frames, with a custom video player and frame-accurate export.
- Implemented GPX/FIT activity-data processing with custom charting, maps, and animated overlays.
- Grew the product to 250+ monthly active users and paying customers after a public launch; built Stripe and Mixpanel integrations supporting 140% month-over-month revenue growth after launch.
- Run the business independently, including marketing, Search Engine Optimization (SEO), analytics, and cloud cost optimization.

MarketMotion.io - Founder / CEO | July 2022 - June 2024

- Built a financial-intelligence platform with React, Redux, D3.js, GraphQL, Node.js, and PostgreSQL, combining options flow, insider trading, and crypto derivatives data.
- Engineered ingestion pipelines for SEC filings, stock APIs, congressional disclosures, and crypto exchange feeds; tuned PostgreSQL queries and indexes.

Open Source | github.com/bartlomein

- Contributed to React Native and authored `iced_tour`, an open-source guided onboarding library for the Rust Iced framework used in Telemetry Studio.
- Authored Beekeep (beekeep.sh), an agent repository for Buzz agents.

EDUCATION

Bachelor of Science in Computer Science - William Paterson University