

JONATHAN POLTAK SAMOSIR

Senior Full-Stack Product Engineer | TypeScript, React, React Native, Browser Extensions

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SUMMARY

Product-focused software engineer with 10+ years of experience shipping web and mobile applications. For the past nine years, helped build and maintain Memex across browser extensions, React Native, web, Node.js, Firebase, Cloudflare, and PostgreSQL/Supabase. Strong in complex TypeScript codebases, end-to-end feature ownership, search and data-heavy product work, testing and CI, and remote collaboration.

TECHNICAL STRENGTHS

Product: TypeScript, JavaScript, React, React Native, SvelteKit, Node.js

Data: PostgreSQL, Supabase, Firebase, REST APIs, database and API design

Quality: Automated testing, TDD, search evaluation, debugging, performance

Browser: WebExtensions, Manifest V3, IndexedDB, local-first architecture

Infrastructure: Cloudflare Workers/KV/R2/D1, Docker, Docker Compose, CI/CD

Additional: Swift/iOS, C, Python, AI-assisted engineering workflows

EXPERIENCE

WorldBrain / Memex | Full-Stack Product Engineer, Remote

2017-present

- One of two primary contributors to the current 2,582-commit codebase; authored more than 900 commits across a system containing more than 3,500 TypeScript/TSX files.
- Build and maintain browser extensions, React Native apps for iOS and Android, web applications, Node.js services, Firebase, Cloudflare, and PostgreSQL/Supabase surfaces.
- Recently delivered deterministic search pagination, semantic-search experiments and evaluation tooling, search performance improvements, data migrations, and production regression fixes.
- Restored and stabilized a unified CI test suite, improving change reliability across a large multi-surface codebase.
- Collaborate in a fully remote team distributed across four continents; mentored two Google Summer of Code contributors in 2018.

Independent Product Work | Full-Stack and Mobile Engineer

2024-present

- Built Suppstacks, a TypeScript/React/Cloudflare knowledge base covering 200+ supplements and 1,000+ brands; designed a data workflow that avoided recurring Airtable API fees.
- Shipped Space/Time from idea to working React Native and web applications in two weeks, using Supabase for authentication and data services.
- Built WalkyTalky, a local-first native iOS application in Swift for summarizing and retrieving information from audio recordings, in four weeks.

Prezly | Frontend Web Developer, Remote

2016

- Contributed production changes to an established CRM product for public-relations teams after learning its existing architecture and conventions.
- Built rich-text editing functionality with React and Draft.js in a fully remote team.

Sportistics WhichTeam | Full-Stack Web and Mobile Developer

2015-2017

- Built a cross-platform football discussion app with Cordova, MeteorJS, MongoDB, Docker, JavaScript, and CSS.
- Helped grow the product from zero to an active user base while owning problems across the stack.

SELECTED RECOGNITION

- Co-authored An Evaluation of Data Stream Processing Systems for Data Driven Applications, Procedia Computer Science 80 (2016), 439-449. DOI: 10.1016/j.procs.2016.05.322.
- Placed third out of 37 entries in The Odin Project's 2021 game jam for Rocket Launcher, a browser-native educational game.
- Public GitHub profile since 2011 with 127 repositories; Memex's public repository has approximately 4,700 stars and 358 forks.

EDUCATION

Monash University | Bachelor of Computer Science, First Class Honours

2010-2015

- Research semester scholarship at the University of California, San Diego; Mandarin study scholarship at National Taiwan Normal University in Taipei.
- Teaching assistant for undergraduate programming and operating-systems courses.

LANGUAGES

English (native) | Vietnamese (conversational) | Indonesian (conversational) | Mandarin (elementary)