

# Arthur Zhuk — Senior Software Engineer

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## CORE SKILLS & EXPERTISE

- **Programming Languages:** TypeScript, JavaScript, Python
- **Frontend & Mobile Development:** React, Expo React Native, TanStack React Query, React Router 7, Next.js, Redux, TailwindCSS, shadcn/ui, Electron, ethers.js, wagmi  
*Builds responsive, high-performance user interfaces and seamless mobile experiences for complex, data-heavy products.*
- **Backend & Cloud Architectures:** Node.js, Express.js, PostgreSQL, MongoDB, MySQL, GraphQL  
*Skilled in designing scalable APIs, modernizing legacy infrastructures, and architecting cloud-native solutions.*
- **DevOps & Infrastructure:** GCP, AWS, CI/CD pipelines, cloud deployments, Webpack + Vite, Sentry, PostHog, Cypress + Playwright E2E, Jest, CircleCI + Github Actions, Docker, K8s (Kubernetes)
- **AI-accelerated development:** Daily use of Cursor, Claude Code, and Wispr Flow to prototype features, refactor legacy code, and improve test coverage.

## EXPERIENCE

### Senior Software Engineer, Travel Syndicate Technology; Remote — Feb 2025 — Current

- Implemented PostHog analytics for Hotel and Itinerary products, resulting in 1M+ tracked events in the first 3 months across product lines and enabling funnel and retention analysis for roadmap decisions.
- Own the full-stack architecture for Hotel/Itinerary/Manual Booking surfaces; set standards for API contracts, data synchronization, and release quality across 10 engineers and 6 repos.
- Unified backend services and API contracts from legacy Ember and React surfaces, cutting duplicated data logic by 30% across 80 modules and improving release velocity from 1/week to 3/week (full-stack deploys, first 90 days).
- Reduced production regressions by 35% (Sentry issues, last 2 quarters) by gating releases on backend API and E2E checks.
- Shortened mitigation time from 45 minutes to 15 minutes via clearer rollback procedures and improved alerting.

### Senior Software Engineer, Insight Rx; San Francisco, CA (Remote) — Dec 2023 — Feb 2025

- Designed and shipped the “Product Features” module to support granular service configuration, unlocking 7 enterprise workflows and enabling rollout of 5 new drug modules.
- Modernized full-stack codebase from JavaScript and mixed async patterns to TypeScript and async/await across frontend and API layers, reducing Sentry error volume by ~180/month and cutting P0/P1 incidents 35% (8 to 5 per month, over 6 months) while improving onboarding velocity for new engineers.
- Executed a MongoDB upgrade across 4 major versions with backward-compatible migrations, improving reliability (reduced slow queries by 55%) and decreasing operational risk.
- Replaced a 10-year AngularJS frontend with a modern React architecture backed by optimized backend APIs, reducing cycle time from 12 days to 4 days and unblocking a chat-based LLM experience on the Nova platform.

**Senior Software Engineer, Rainmaker YC2022; Brooklyn, NY (Remote & Contract) — Aug 2023 — Oct 2023**

- Engineered an early React Native WalletConnect integration supporting ERC4337 wallets, enabling seamless interoperability with dApps.
- Re-architected navigation from React Navigation to Expo Router, improving deep-link success rate from 75% to 98% (app opens the correct route <2 seconds).

**Senior Software Engineer, Saddle Finance; San Francisco, CA (Remote) — Nov 2021 — Dec 2022**

- Implemented DeFi-specific features (Permissionless Pools, cross-chain gauges, claim token vesting) and refactored the app for permissionless, multi-chain support via a registry smart contract.
- Boosted release confidence with Cypress E2E and Hardhat coverage on core protocol actions; caught 12 regressions in CI/staging before production and cut production hotfixes by ~50%.
- Accelerated development cycles by building backend APIs with Python and FastAPI for DeFi features, cutting integration time dramatically.

**Software Engineer, Procore; Carpinteria, CA — Aug 2018 — Nov 2021**

- Led development of 6 React products in the Quality & Safety suite, partnering with PM/design to ship 25 major features used by 500+ companies and 10k+ users.
- Shipped “Action Plans” as the first TypeScript product with modern state management (Hooks/Context/React Query), cutting type-related runtime errors by 25% (Sentry “undefined/null” class) via compile-time checks and boosting developer velocity (3 to 5 PRs/week).
- Decoupled from Rails monolith into micro-frontends, eliminating shared dependencies to enable parallel development and independent deployments for 6 team applications.
- Upgraded Webpack v2 to v5 and optimized pipeline, cutting CI build times from 20 minutes to 5 minutes (75% faster).

**Software Engineer, Aira; San Diego, CA — May 2017 — Jun 2018**

- Developed advanced full-stack features for an ElectronJS-based dashboard UI using Vue and Node.js backend, integrating real-time metrics, live camera feeds, and critical system alerts.
- Integrated Google Maps API and Uber/Lyft workflows for geolocation features, improving user satisfaction by ~30% (measured via in-app survey) for visually-impaired users.

**DevOps Engineer, Microsoft & Boeing, Redmond WA — Feb 2010 — Nov 2015**

- Automated infrastructure deployments for enterprise systems, reducing change failure rate by 25% and mean time to recovery (MTTR) by 40%.

**EDUCATION**

Highline Community College, Des Moines, WA — A.S Computer Science, 2010

42 Silicon Valley, Fremont CA; C Systems, Algorithms, and Data Structures, 2016 - 2017

Completed multiple advanced JavaScript courses on Frontend Masters