Yuri Feldman

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Profile

Senior product engineer focused on building useful products and services. Works closely with users and designers, drawing on deep React and TypeScript expertise and hands-on experience across frontend, backend, and developer tooling. Uses the Mikado Method to tackle complex changes incrementally while keeping software working. The aim is software people can rely on and engineers can keep improving.

Recent Experience

ANZ Bank — 2024–Present

Senior Software Engineer — Demyst Data, then Infosys Consulting

Frontend delivery for business lending and document-digitisation workflows; now primary frontend engineer on a second application.

- Led frontend architecture, React/TypeScript implementation, and code review for a multi-step loan application, translating Figma designs into production workflows.
- Modelled multi-step application journeys with XState, managing page transitions and supporting save and resume.
- Used Effect's dependency injection to switch between local data and live API providers, enabling the application to run fully offline and keeping frontend development independent of backend availability.
- Reused offline-mode fixtures in Playwright browser tests through network interception, alongside end-to-end tests against backend services in a local development setup.
- Designed a Valibot-based validation layer to accommodate changing requirements, and improved delivery tooling through GitHub Actions CI and migration from Next.js/Jest to Vite/Vitest.

TypeScript, React, Effect, XState, TanStack Router, Valibot, Playwright, Vite, Vitest, GitHub Actions

PlaySide Studios — 2024

Software Engineer

Improved pre-release UI stability for Sid Meier's Civilization VII – VR, resolving interaction bugs with QA and design.

TypeScript, Coherent Gameface, Gulp, Webpack, Jest, Perforce

Exscientia — 2021–2024

Senior Frontend Engineer

- Worked directly with drug designers, engineers, and designers to understand research workflows and consolidate tasks from existing tools into internal React applications.
- Built a graph-based workflow prototype for generating, filtering, and scoring candidate compounds. Researchers used the prototype, and the team developed it into an internal application.
- Integrated existing graph and dashboard software into further workflow prototypes, and added Playwright integration tests across frontend work.

TypeScript, React, GraphQL/Apollo, Playwright, Vite, AWS CDK, Kubernetes, Material UI

Experience — Modernisation and Product Delivery

Oxford Computer Consultants 2020–2021

Contract Frontend Engineer

Joined an in-progress JavaScript/React rewrite of a C# application, where substantial duplication made the migration difficult to extend.

- Consolidated duplicated code within the existing React rewrite and introduced TypeScript, reducing code size and making subsequent migration work easier to extend.

TypeScript, React, Nx, MobX, runtime schemas

Navenio 2019–2020

Senior Frontend Engineer

Worked on indoor positioning and task scheduling software used by hospital porters.

- Reduced the legacy frontend codebase by more than 50% through TypeScript migration, removal of duplicated code, and incremental Mikado-method refactoring, while continuing feature delivery.
- Improved test coverage and build times while making ongoing changes easier.
- Evaluated TypeScript monorepo tooling for sharing React code across applications.

TypeScript, React, TypeStyle, Lerna, Python, Django, Kubernetes, GraphQL, Jest

Factor5 Software 2017–2018

Frontend Developer

Built and modernised software supporting university course administration.

- Developed React features while introducing TypeScript into a legacy frontend, supporting continued product development alongside modernisation.

TypeScript, React, ServiceNow, Redux, Emotion

Experience — Public Products and UX

NICTA / CSIRO Data61 2015–2017

Frontend Software Engineer

- Owned the entire frontend of the DFAT Free Trade Agreement Portal, launched in 2016 and still in public use a decade later. Helped businesses compare tariffs across trade agreements instead of searching documentation manually.
- Worked in a small team with government stakeholders to build accessible, data-heavy interfaces for trade, policy, and mapping workflows.
- The trade portal team received the Application Development Award at the 2016 Australian Government ICT Awards.
- Built the PM&C Council of Australian Governments Dashboard and contributed to the NationalMap web mapping application using Cesium.js.

JavaScript, TypeScript, React, Redux, D3.js, Cesium.js, accessibility

Draftable 2012–2014

UX Engineer

- Owned UX design and frontend implementation for document-comparison applications, using usability testing to refine the experience.
- Co-designed and shipped synchronised scrolling, diff visualisation, and loading behaviour, informed by usability testing.
- Helped name Draftable and ran an external logo-design competition to select its logo.
- Prototyped a Gmail-integrated Chrome extension and built the product website with animated demos.

JavaScript, D3.js, Backbone.js, Underscore.js, AngularJS, Ractive.js, Django

Squareweave 2011–2012

Web Applications Developer

Built PHP applications including OurSay, where citizens could submit and vote on questions for politicians. Introduced TDD, encryption, and version control to the in-house framework.

PHP, JavaScript, jQuery, Backbone.js, SVN

Monash University 2010–2011

Registration and Authentication Services Project Assistant

Maintained and extended Perl-based university systems while completing a Computer Science degree, adding tests to support changes to legacy registration and authentication software.

Perl, LDAP, RCS, command-line tools

Education

Monash University — Bachelor of Computer Science, 2013
Melbourne High School, 2007

Independent Products and Consulting

Selected Independent Products

Product Engineer

- Shivai — Built a graph-based system for everyday tasks and complex projects across iPhone, Electron, and web. Shared dependency graphs coordinate work between people and AI agents and support automated coding using the Mikado Method. In active development and used in my own work.
- Integrated project graphs into a fork of Buzz, a team-chat application, so agents can collaborate on the same graph within a shared workspace.
- Hamster — Built an iPhone app for heart-rate-guided Bluetooth treadmill control, migrated from an earlier macOS application and used in my own training sessions. Telemetry-loss safeguards suspend speed increases, then progressively slow and stop the treadmill if the loss persists.
- Built Factorio mods and developer tools for LLM-friendly documentation, structured search, and local agent workflows.

TypeScript, React, Bun, Effect, Electron, Swift, Bluetooth Low Energy

Selected Consulting Engagements 2014–Present

Delivered project-based client work across data visualisation, infrastructure, migrations, and testing in research, civic, food, and sports domains.

TypeScript, React, JavaScript, Ruby on Rails, D3.js, Mapbox, Django, MongoDB

Technical Expertise

- **Frontend and product:** TypeScript, JavaScript, React, HTML, CSS, accessible interfaces, UX prototyping, usability testing, D3.js.
- **Application architecture:** Effect, XState, TanStack Router, runtime schemas, Valibot/Zod.
- **Backend and APIs:** Node.js, Bun, GraphQL/Apollo, PHP, Perl, SQL, Ruby on Rails.
- **Delivery and modernisation:** Playwright, Vitest, Jest, Vite, GitHub Actions, test automation, incremental Mikado-method refactoring, TypeScript migrations.
- **Cloud and infrastructure:** AWS, AWS CDK, Kubernetes, Cloudflare, Pulumi, Terraform, infrastructure as code.
- **Other languages and platforms:** Swift, Python, Ruby, Electron, iPhone and macOS applications.
- **AI coding tools:** Oh My Pi (OMP, primary), Codex.
- **Agent tooling:** MCP servers, shared dependency graphs, workflow engines, structured documentation and search.