

MANOJ VEKARIA (NOJ VEK)

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ABOUT ME

I'm a full-stack product engineer with deep expertise in Frontend (TypeScript) and Backend/ML (Python). A reverent disciple of machine learning, quantitative finance, and supply-chain optimization.

PROFESSIONAL EXPERIENCE

Founding Lead Engineer + Staff Software Engineer at Recurrency - Remote (Seattle, Washington & Tampa, Florida)

Apr 2021 – Feb 2026

Recurrency (recurrency.com) is building ERP automation platform for distributors using machine learning and workflow automation.

Business Growth: 2nd product engineer. Scaled from 0 → 250+ enterprise customers, driving multi-million dollar ARR.

Team & Process: Grew team from 1 → 20+ engineers. Established tech-docs process for async alignment and focused execution.

Full-Stack Tech Lead: Led team to deliver end-to-end modules (purchasing, planning, sales, reporting) + ML-based demand forecasting and recommendation engines.

Frontend (TypeScript/React): User engagement correlates with speed and reliability. <1s p95 initial load, <100ms navigation and interaction. Active error/perf monitoring.

API (Node.js/AWS ECS): Customer workflows need high-throughput REST-api. <50ms median latency, 1000+ concurrent requests, >99.99% uptime SLA, >99.99% non-50X response success rate.

Backend (Python/Postgres/MotherDuck): Customer ERP data is huge and messy. 20TB+, 10B+ rows, tenant-sharded elastic columnstore database architecture using Motherduck. User/Tenant/Metadata transactional operations in Postgres. SOC II compliant. Co-led MongoDB/Snowflake → PostgreSQL/Motherduck migration with infrastructure lead.

Data/Observability: Reliable ETL across 250+ customer datasets, 5+ ERP schemas. Airflow + DBT pipelines. DataDog, Sentry, Mixpanel, FullStory, AWS Logs, Slack Alerts.

CI/CD: Developer velocity = faster customer iteration. 90%+ coverage, 2000+ E2E tests in <5m. PR → deploy in <10m. 2-10 deploys per day.

Senior Software Engineer at Stripe - Hybrid (Seattle, Washington)

Nov 2020 – Mar 2021

Stripe (stripe.com) builds payment infrastructure for the internet. Frontend Infrastructure team.

TypeScript Migration: Developer productivity improves with type safety and a larger ecosystem. Led Flow → TypeScript migration across Stripe Dashboard, Platform & Sail Design system.

Dev Loop Iteration: Faster iteration = happier engineers. Designed and implemented devbox-per-branch strategy for higher throughput iteration. Improved developer loop via caching middleware (Ruby/RoR). Instrumented devloop metrics in product-health dashboard.

Senior Software Engineer at Mixpanel - Hybrid (Seattle, Washington) *Mar 2016 – Nov 2020*

Mixpanel (mixpanel.com) is a petabyte-scale product analytics platform.

UI Performance: Customer retention correlates with speed. Achieved 10X improvement in page load times, directly increasing retention metrics. <1s P90, <100ms navigation and interaction speed.

Design System: Consistent UX builds user trust. Built Mixpanel's Design System (design.mixpanel.com). Fewer core components, faster feature delivery, delightful micro-interactions.

Enterprise Features: Large customers need control. Delivered admin settings, lexicon (data annotation), and query builder.

Dev Loop (HMR): Developer iteration speed matters. Custom webpack HMR plugins reduced devloop to <5 seconds. Code changes apply without page reload.

Codebase Health: Maintainability enables velocity. Led JavaScript → TypeScript, Jade → TSX migrations. Error/Perf tracking and alerting.

CI/CD: Reliable deploys build confidence. Per-PR staging environments, parallelized pipelines, Puppeteer smoke tests. ~30 min median deploy time.

Software Engineer at Microsoft - Edge DevTools (Seattle, Washington)

Aug 2015 – Feb 2016

Microsoft Edge DevTools: browser developer tools for web developers.

Startup Perf: Developers open DevTools constantly. Improved startup performance for faster debugging workflows.

DevTools Features: Quality tools = productive developers. Bug fixes and improvements across DOM Explorer, Console, Memory Profiler, CPU Profiler, Network tab.

CI/CD: Reliable releases build trust. Faster, more reliable pipeline with E2E tests.

VSCode Integration: Cross-tool debugging improves DX. Collaborated with VSCode team on Chrome Debugger plugin.

Software Engineer at Microsoft - PowerBI (Vancouver, Canada & Redmond, Washington)

Jun 2013 – Aug 2015

Power BI (powerbi.microsoft.com) is Microsoft's enterprise business analytics platform.

Dashboard UX: Business users expect fluid interactions. Built AngularJS dashboard with smooth 60FPS drag-and-drop, multi-touch support.

Visualizations: Data insight requires clear presentation. Report rendering with Canvas and D3.js.

Enterprise Features: Large orgs need governance. Built Admin Settings UI.

Software Engineer at RocketBoots Pty Ltd (Sydney, Australia)

Mar 2009 – Dec 2013

RocketBoots (rocketboots.com.au) is a foot traffic video analytics consultancy. Employee #1, helped grow to 11 engineers.

Computer Vision (Beehive): Retailers need foot traffic insights. Implemented OpenCV-based vision on embedded SOC cameras for real-time people analytics.

ML Training Pipeline: Accuracy drives customer value. Built genetic algorithm ML system on ~500 VM AWS cluster. Improved accuracy from 70% → 95% in hours. (Pre-CNN/GPU era)

Robotics (HERMES Light): Defense clients need autonomous surveillance. Lead developer for military-grade surveillance robot software. <https://www.youtube.com/watch?v=BEba5iVmIEQ>

OPEN SOURCE

- Nodejs PRs
 - [Documentation for --inspect, --debug-brk, --debug](#)
 - [Fix bug where --inspect doesn't notify profilers to disconnect](#)
- VSCode PRs
 - [Inline values when debugging via decorators](#)
 - [Terminal links based on CWD](#)
 - [Type to focus](#)
- Typescript PRs
 - [jsxFragmentFactory compiler option](#)
 - [allowJS + declarations compiler configuration](#)
 - [Pretty jsx emit](#)
 - [Fix .d.ts declarations](#)
- Chrome DevTools
 - [Tooltips for Request Timing Metrics](#)
 - [Mouse handling to change units with keyboard modifiers](#)
- Chrome DevTools protocol
 - Auto generated type definitions from protocol.json. Consumed by VSCode, puppeteer, lighthouse and other tools.
- [fuzzbunny](#) - Fast fuzzy matching library written in Typescript.
- [urltron](#) - persist json state in url for frontend SPA applications as k=v query params.
- [panel](#) - Web components with virtual dom
- [boomadmin](#) - MySQL db explorer with SQL builder
- [RaspberryPISelfDrivingCar](#) - fun experiment with openCV on a raspberry pi powered car.
- Misc other contributions to [webpack](#), [webpack-dev-server](#), [simd_nodejs](#), [puppeteer](#), [preact](#), [ChakraCore](#).

EDUCATION

University of New South Wales (UNSW), Australia

July 2006 - Aug 2009, (Bsc Computer Science) Grade: Distinction

Notable Courses:

- Discrete Mathematics & Statistics
- Data Structures & Algorithms
- Ethics & Law for Computer Science
- Microprocessors & Embedded Systems
- Database Systems & Implementation
- Artificial Intelligence & Search
- Advanced Computer Graphics
- Programming Languages & Compilers
- Computer Vision
- Web Applications