



Nicolas Epstein

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[GitHub](#) [LinkedIn](#) [Website](#)

PROFESSIONAL SUMMARY

Highly skilled Senior Software Engineer with over 6 years of professional experience, expertise in full-stack web development (backend focus) and extensive experience in designing, implementing, and optimizing scalable applications. Proven ability to lead complex projects, improve system performance, and drive team success.

SKILLS

Programming: Python, TypeScript, SQL, Rust, Go, HTML, CSS, Bash

Frameworks & Tools: PostgreSQL, Node, Django, Express, React, Git

DevOps: CI/CD, Docker, Kubernetes, AWS

Soft skills: Autonomy, versatility, eagerness to learn, teamwork, problem-solving.

EXPERIENCE

Senior Software Engineer, Normal VR, NYC (remote), Feb. 2024 - Mar. 2025

- Led backend development using TypeScript, Node, Hono.js, and PostgreSQL, including REST APIs and performance optimization.
- Orchestrated a zero-downtime migration from Firestore to PostgreSQL, improving query performance while reducing overall costs.
- Enhanced application security by implementing JWT and multi-factor authentication, and significantly increased backend test coverage (from 20% to 90%).
- Managed DevOps practices, including Docker/K8s configurations and CI/CD pipelines with GitHub Actions and Vercel.
- Designed and implemented a web UI using React, Refine, and Ant Design used for data visualization and the management of payments, subscriptions, API keys, and security settings.
- Stack: TypeScript, Node, PostgreSQL, Hono.js, React, Refine, AntD, Docker, K8s, OpenAPI, JWT

Software Engineer, Quebec Blue Cross, Montreal (remote), May 2022 - Jan. 2024

- Developed an observability application to simplify DevOps tasks for non-technical users by integrating with Bitbucket and K8s APIs on Azure.
- Enhanced application performance using Redis for API caching and established real-time front-end/back-end communication with WebSockets.



- Modernized the codebase by porting over 30,000 lines of legacy Python code and designed a new frontend with React.
- Mentored an intern who moved into a successful career as a web developer.
- Stack: Python, FastAPI, TypeScript, React, Material UI, Redis, Docker, K8s, OpenAPI, WebSockets

Software Engineer, Norwegian Refugee Council, Berlin (remote), June 2020 - Apr. 2022

- Contributed to the development of a case management tool for the humanitarian sector, including a workflow orchestration library and dynamic form rendering using Go HTML templates.
- Developed comprehensive E2E test suites with Cypress and unit test suites with Jest.
- Worked on the mobile port of the application for Android devices.
- Stack: Go, TypeScript, React, React Native, Bootstrap, Storybook, Jest, Cypress

Freelance Developer, Nicolas Grenier, Montreal, May 2019 - Oct. 2023

- Collaborated with the artist Nicolas Grenier to create interactive surveys for desktop and mobile, reaching over 5,000 users.
- Crafted interactive data visualizations in both 2D (D3.js) and 3D (Three.js).
- Wrote a Rust tool to convert collected data into 3D geometries.
- Stack: TypeScript, React, D3.js, Three.js, Rust, Django, Express, SQLite, PostgreSQL, SCSS, AWS

PERSONAL PROJECTS

Jx Rust-based CLI tool for interactive exploration of JSON documents. [GitHub](#)

Harfang Hypermedia-driven web app featuring threaded comments and a responsive UI. (Django, HTMX, Tailwind CSS, PostgreSQL) [GitHub](#)

8-bit Computer Hardware project demonstrating deep understanding of computing fundamentals.

EDUCATION

Harvard University, Computer Science Certificate, 2020

Université de Montréal, BA Philosophy, 2009