

# Nicolas Epstein

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## Skills

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**Programming Languages:** Python, TypeScript, JavaScript, Rust, Go, SQL, HTML, CSS, Bash

**Frameworks & Libraries:** React, Django, FastAPI, Node.js, Docker, Kubernetes, PostgreSQL, Git, REST APIs

**Languages:** English (native), French (native), German (fluent)

## Experience

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**Lead Developer** – Quebec Blue Cross – Montreal – 2022-2023

- Led the development of an in-house dashboard for monitoring repositories, CI/CD pipelines and Kubernetes clusters used daily by over 200 developers throughout the company.
- Wrote the backend API in Python with FastAPI and the frontend in Typescript with React, react-router and Material UI and linked the two in a build pipeline which automatically generated the API client based on an OpenAPI specification.
- Ported 35,000 lines of legacy Python to modern standards; notably using Pydantic to formalize data models and dramatically improving performance by leveraging Redis to cache HTTP responses.

**Full Stack Developer** – Nicolas Grenier – Montreal – 2019-2023

- Worked in tight collaboration with the artist Nicolas Grenier to make visually creative interactive surveys that reached over 5,000 users on both desktop and mobile.
- Wrote several full-stack applications with Django, Node.js, Express.js, SQLite, PostgreSQL and React.
- Created real-time data visualizations in both 2D and 3D using D3.js, Three.js and wrote a Rust application to efficiently and dynamically transform collected data into 3D geometries.

**Full Stack Developer** – Norwegian Refugee Council – Berlin – 2020-2022

- Designed and implemented a case management tool for the humanitarian sector using Go, Typescript and React which included a workflow orchestration library written in Go to enforce user-definable constraints on data entry.
- Worked on a mobile port of our frontend application for Android devices using React Native.

## Projects

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**Harfang** – [github.com/sqwxl/harfang](https://github.com/sqwxl/harfang)

- A web application inspired by Reddit and Hacker News created mainly using Django, HTMX and Tailwind CSS featuring threaded comments, a voting system, markdown syntax support, a responsive UI and more.
- An experiment in creating a modern & responsive user experience with a “hypermedia driven” server-rendered multi-page application as opposed to the more common single-page application approach.

**jx** – [github.com/sqwxl/jx](https://github.com/sqwxl/jx)

- An interactive JSON document explorer for the command line written in pure Rust that provides a quick way to explore large documents without leaving the terminal. Includes a search function and can output selections to clipboard or standard out.

**edythe** – [github.com/sqwxl/edythe](https://github.com/sqwxl/edythe)

- A work-in-progress command line text editor written in Rust.

**DIY 8-bit Computer**

- An exploration of the fundamental principles of computation and computer science: a computer made entirely from basic electronic components (logic chips, resistors, capacitors, etc) that can be programmed to perform simple tasks like computing the Fibonacci sequence.

## Education

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**Harvard University** – Computer Science Certificate – 2020

**Université de Montréal** – BA Philosophy – 2011

**Cégep de Sherbrooke** – DEC Natural Sciences – 2009