

Daniel Greco

Software Engineer · Montréal, QC

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SUMMARY

Software engineer focused on building scalable backend systems, reliable infrastructure, and developer tooling. Experienced in designing APIs, integrating third-party services, and implementing CI/CD pipelines. Strong foundation in systems programming, databases, and cloud-native development. Hands-on with hardware through IoT/home automation projects, 3D printing, and PCB design. Committed to writing maintainable, well-tested code in fast-paced environments.

EDUCATION

Bachelor of Arts · McGill University

Montréal, QC

Aug 2019 – Dec 2025

Major: Computer Science

Minor: Mathematics

Relevant Coursework: Operating Systems, Database Systems, Concurrent Programming, Compiler Design, Algorithms & Data Structures, Computational Biology, Computational Linguistics

EXPERIENCE

Full-Stack Engineer · Speer

Jun 2021 – Jul 2022

Toronto, ON

- Architected backend services for a regulated ecommerce platform using Node.js, MongoDB, and Redis
- Designed and implemented a custom payment gateway to meet legal constraints for nicotine product sales
- Built integrations with Shopify REST and GraphQL APIs for inventory, orders, and fulfillment
- Developed CI/CD pipelines and automated deployment infrastructure for reliable releases
- Translated complex regulatory requirements into technical specifications through direct client collaboration

SKILLS

Languages: Rust, Python, TypeScript, Java, C, Haskell, OCaml, SQL, Bash

Backend: Node.js, Tokio, Express, Nest.js, REST APIs, GraphQL

Infrastructure: Docker, Kubernetes, Terraform, AWS (EC2, S3), GitHub Actions, CI/CD

Data: PostgreSQL, MongoDB, Redis

Systems: Linux, Unix, Microservices, Cloud-Native Development

Hardware: PCB Design, CAD, 3D Printing, Soldering

PROJECTS

jean

github.com/dangreco/jean Rust • Bioinformatics • Algorithms

☆ 5 ⚡ 0

- Computational biology library featuring sequence alignment and genome annotation

- Implemented Needleman-Wunsch algorithm with configurable scoring matrices and gap penalties

- Built streaming parsers for FASTA and GFF3 formats with zero-copy I/O

hmmmm

github.com/dangreco/hmmmm Rust • Probabilistic Models • Algorithms

☆ 4 ⚡ 0

- Hidden Markov Model library with Viterbi algorithm for MAP sequence estimation

- Designed flexible API for defining transition/emission probabilities

- Developed proc macros for compile-time state/observation enum validation

threedy

github.com/dangreco/threedy TypeScript • Open Source • Home Automation

☆ 205 ⚡ 60

- Home Assistant integration for 3D printer monitoring; 200+ stars, distributed via HACS

- Adopted by the community with external contributions and multi-printer support