Rodolphe Kouyoumdjian

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Final-year Computer Science student at McGill with backend focus in Java/Spring, frontend work in React/Next.js, and cloud-native deployment experience.

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, Flutter, SwiftUI, C++, R, HTML, CSS, Bash, OCaml
Frameworks: Next.js, MongoDB, **Prisma**, shadcn, NextAuth.js, Firebase, React, Flask, **Docker**, Kafka, **SQL**, **socket.io**, Spring Boot
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, **Linux**
Libraries: pandas, NumPy, Matplotlib

EXPERIENCE

Software Engineer — January 2025 – May 2025
Planorama | Founder — *Montreal, Canada*
- Built a full-stack web app to streamline project planning using **Next.js**, **MongoDB**, and **NextAuth**
- Integrated payments to support subscriptions using **Stripe** and automated collaboration with the **OpenAI**, **Discord**, and **GitHub** APIs
- Built CI/CD pipelines to deploy LLM-generated structured outputs using **GitHub Actions**

Full-stack Engineer — September 2024 – December 2024
Avocado — *Remote*
- Built core features for an online marketplace using **Next.js**, **Prisma**, **MongoDB**, **Firebase**, Stripe, and **Google Cloud** to enable product listings and transactions

Software Engineer — Summer 2023
Allons Burger | Contract — *Montreal, Canada*
- Built a mobile ordering app using **Flutter**, with seamless payment and delivery integration via the **Stripe** and Doordash **APIs**. Built a backend with **Spring Boot**
- Implemented a customer rewards program, intuitive UI, admin dashboard, and dynamic menu management

HACKATHONS

McHacks 12 | *Next.js, OpenAI API, ShadCN, MongoDB, React Flow, Discord API, GitHub API* — Winter 2025
- Placed 2nd **overall** out of **600+** developers at McHacks 12
- Built a project management tool with graph-based planning, AI task generation, and seamless tech integrations
- Enhanced team collaboration through Discord and GitHub integrations with workflow visualization features

PROJECTS

SQL Interpreter & Query Optimizer | *Java, Data Structures, Query Optimization* — Winter 2024
- Developed an SQL interpreter and query optimizer in Java to improve query efficiency and data retrieval
- Applied advanced data structures and optimization techniques to enhance performance

PairIt | *SwiftUI, Xcode, Python* — Summer 2022
- Built an iOS language learning game to match words across languages using **SwiftUI** and a custom spaced repetition algorithm
- Scraped and processed **50+ GB** of multilingual data from Project Gutenberg to generate frequency-based word pairs
- Used parallel concurrency in Python to accelerate data processing by **100x**, enabling scalable smart recommendations

scryblr.com | *Flask, HTML, CSS, Javascript* — Summer 2023
- Developed a full-stack app, integrating authentication, a database and an LLM API to improve UX

EDUCATION

McGill University — Montreal, Quebec, Canada
Bachelor of Science in Computer Science, 3.86/4.0 GPA — *Aug. 2022 – May 2025*
- Fundamentals of Statistical Learning, Intro to Statistical Computing, Brain-Inspired AI, Intro to Time Series Analysis, Data Structures and Algorithms

King's College London — London, England, UK
Study Abroad — *Sep. 2024 – Dec. 2024*
- Mathematical Finance I: Discrete Time, Machine Learning for Biomedical Applications

University of Edinburgh — Edinburgh, Scotland, UK
Study Abroad — *Jan. 2024 – Jun. 2024*
- Entrepreneurship and Innovation Project, Advanced Database Systems