Rodolphe Kouyoumdjian

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EDUCATION

McGill University   Montreal, Canada
BSc Computer Science   *Autumn 2022 - Winter 2025*
3.86 / 4.0 GPA
Relevant Coursework: Fundamentals of Statistical Learning, Intro to Statistical Computing

King's College London   London, England
Study abroad   *Autumn 2024*
Relevant Coursework: Mathematical Finance I: Discrete Time, Machine Learning for Biomedical Applications

University of Edinburgh   Edinburgh, Scotland
Study abroad   *Winter 2024*
Relevant Coursework: Entrepreneurship and Innovation Project

EXPERIENCE

Holoquiz
Health-oriented AI powered quiz making game hologram for   Winter 2024
students
- In a team of 4, conceived the software and hardware to generate a health quiz using AI for students to learn in a more interactive way. Asks questions about bodyparts while showing a hologram of it
- OpenAI API, Python, Arduino

Allons Burger
Mobile restaurant ordering app   Summer 2023
- Built a mobile app and backend using various technologies to improve efficiency and costs. Provided eat-in or delivery options.
- Payment processing, APIs, Authentication, Databases
- Flutter (Dart), express.js (TypeScript), Stripe, Firebase

scryblr.com
AI content creation and collaboration platform for marketers   Winter 2023
- Launched a full stack SAAS application
- Payment processing, Authentication, Databases, Marketing
- HTML, CSS JavaScript, Flask (Python), Stripe, Firebase, Marketing (Twitter, YouTube, Instagram)

PairIt
Language learning game for iOS   Summer 2022
- Inspired by the card game "Memory", given words cards in two languages, the player should match the words
  - Scraped the Project Gutenberg site to find the frequencies of words in 100+ languages
  - Using spaced repetition, implemented a recommendation algorithm to show words to the user round after round
  - 200+ downloads
- Mobile programming, team collaboration, data scraping, analysis & manipulation, linguistics
- Swift UI, Xcode, Python

Asset Allocation
Mean variance portfolio optimization   Autumn 2021
- Given a list of assets, what would be the most optimal portfolio? Use a Monte Carlo method to outline the efficient frontier proposed by the Modern Portfolio Theory
- Python, Statistics, data scraping & analysis

Stocks Correlation
Analyze the correlation between ~500 stocks in 7 industries   Autumn 2021

- Trading highly correlated stocks gives an illusion of diversification, within an industry, which pairs of stocks shouldn't be in the same portfolio?
- Python, Statistics, heatmap visualization, Pearson Coefficient

EXTRACURRICULARS

McGill Robohacks

Designed a robot in a team of 4 using Arduino and C   Autumn 2023

McGill Robohacks

Hohmann Transfer and Mission to Mars   Autumn 2022
- Simulated the Hohmann transfer in a two-body context (Sun and rocket), simulated a rocket mission from Earth to Mars
- 3rd in astrophysics category, 10th overall

Scouts

Scout Saint-Antoine le Grand   2017-2021
- Acquired survival skills, team building, camping, team leading, problem solving. An overall unique and life changing experience
- Learned Morse Code, the ethics of camping, forest cooking, fire making, warmth & anti-mosquito techniques

LANGUAGES
- French – Native
- English – Native
- Arabic – Native
- Spanish – B2
- Italian – B2