

KYLE WILSON

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<https://github.com/kywi4190/Projects>

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TECHNICAL SKILLS

- **Programming Languages:** Python, C, C#, Java, SQL, R, HLSL, HTML
- **Frameworks & Tools:** PyTorch, OpenAI Gymnasium, Pandas, NumPy, Unity
- **Technologies:** Git, Docker, Linux, Deep Learning, Reinforcement Learning, Classification Model, OpenAI Agentic API

PROJECTS

- **Prompt to Math Visualization Teacher using Agentic AI (Python):** Locally hosted website accepts user prompt to automatically generate a 25-45 second 3Blue1Brown style math visualization and education video with a voice-over using agentic AI. Initial generator, critic, and error catcher uses a multistep API call loop to minimize error and maximize success.
- **Deep Learning Handwritten Digit Classifier (C#):** Custom coded backpropagation uses deep learning to classify pictures of handwritten digits (0-9) from the MNIST dataset. Represents digit features in latent space to predict with 95% accuracy.
- **Volumetric Clouds (HLSL):** Compute shader renders clouds using ray-marched Rayleigh scattering and Worley noise.
- **Procedural Tree Generation (C#):** Leverages Lindenmayer systems to procedurally generate different species of trees.

EXPERIENCE

Software Development Intern, Alphinat, Montreal

Summer, 2024

- Added features, bug fixed, and optimized the code base of a low-code platform product
- Implemented and tested CRUD operations using the .NET Framework to interact with a web API
- Participated in weekly progress meetings about direction and pace of product development

Alternative Investments Summer Intern, Ninepoint Partners, Toronto

Summer, 2023

- Created slide decks of our investment strategies to pitch for prospective clients
- Researched potential investment sub-advisors and participated in due diligence meetings

Wealth Management Summer Intern, ScotiaMcLeod Rideau Wealth Group, Ottawa

Summer, 2022

- Worked alongside client advisor and Managing Partner of wealth management practice
- Grew podcast and social media marketing initiative
- Sat in on client update and new prospect meetings

Private Equity Analyst Summer Intern, 1251 Capital Group, Ottawa

Summer, 2022

- Constructed public company valuation analysis
- Built simplified minority leveraged recapitalization model in Excel from scratch
- Sat in on deal negotiations with lawyers and business executives for live deal

Program Participant, SHAD Canada, Ottawa

Summer, 2021

- Chosen for prestigious STEM-entrepreneurship program run by 19 universities across Canada

EDUCATION

Bachelor of Science in Computer Science, Applied Math, University of Colorado Boulder, Boulder, CO

2023-Present

- Current GPA: 3.87
- **Relevant Courses:** Data Science, Linear Algebra, Algorithms, Software Development Tools, Data Structures
- Tau Beta Pi – National engineering honor society, invite only for top eighth GPA in Engineering
- Sigma Nu Fraternity – Ethical leadership development, personal growth and community service
- Study Abroad: UC3M, Madrid (2025)

Bachelor of Science in Finance, Babson College, Wellesley, MA

2022–2023

- Babson Analyst Initiative (2022) – highly selective equity research and stock pitching program

ADDITIONAL INFORMATION

- Dual U.S. and Canadian Citizen
- Disciplined and accomplished athlete with over a decade of experience in teamwork, leadership, and thriving under stress
- National Collegiate Rugby, National Champions – played wing on the starting lineup for Babson College (2023)
- Undefeated USA Amateur Boxer
- **Further Project/Role Interests:** PPO, RAG, Diffusion, Continual Learning, Liquid Neural Networks, Auto-Encoding