George Kalashlinskyi

250-702-2460 | hkalashl@uwaterloo.ca | LinkedIn | GitHub

Education

University of Waterloo Waterloo, ON
BMath in Mathematical Finance

Experience

Math Instructor Aug 2024 – Present
Mathnasium *Kitchener, ON*

- Held in-person meetings with students, leading group and individual lessons in a fast-paced environment.
- Tracked and analyzed student performance metrics, providing constructive feedback and adapting instruction to individual needs.
- Collaborated in a team-teaching environment, ensuring all student needs were met effectively.
- Rapidly shifted lesson plans and materials in response to evolving student needs and center directives.
- Engaged students through interactive math lessons, covering topics up to Senior Calculus and Geometry.
- Delivered personalized math instruction using the Mathnasium Method, enhancing student understanding and confidence.

Software Developer Intern Sep. 2024 – Dec. 2024
Otomakeit Solutions *(Remote) Halifax, ON*

- Developed a Windows application to streamline internal file management processes, integrating lightweight automation logic.
- Collaborated with a senior developer to conduct code reviews, contributing to a 15% improvement in code quality metrics.
- Diagnosed and resolved critical software bugs using the Visual Studio debugger, ensuring system stability.
- Wrote detailed technical documentation and user guides to support onboarding and feature transparency.
- Implemented GitHub OAuth to securely fetch and visualize usage data, applying logic to identify high-frequency actions.
- Explored the integration of basic AI-powered text classification tools to enhance internal tagging and search functionality.

Projects

Investment Project | *Financial analytics, Excel*

- Achieved a time-weighted return (TWRR) ***6.45 pp*** higher than the ***S&P 500*** benchmark.
- Created portfolio of high-growth/potential stocks with balanced risk/growth ratio, with Sharpe ratio of ***1.16***.
- Delivered a ***40.5%*** total ROI over two years through systematic analytics and re-balancing.

NBA match outcome predictor | *Python, pandas, sklearns*

- Developed a Python 3 Machine Learning Algorithm that can successfully predict match outcomes of NBA games.
- Model is based on the historic outcomes from 2002 up to the latest season with over ***28,000*** games recorded in the training set.
- Overall the highest recorded accuracy was ***82%*** with ROC of ***0.9***.
- Utilized Python programming language and libraries including, but not limited, to ***sklearn*** and ***pandas***.

Live Color Detection | *Python, OpenCV*

- Developed an live camera color detection app.
- Utilized Python OpenCV Library to embed detection features.

Technical Skills

Languages: Python, C/C++, JavaScript, HTML/CSS
Frameworks: React, Node.js, WordPress
Libraries: pandas, OpenCV, sklearn
Tools: Git, GAPI, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, MS Suite
Microsoft Office: Word, Excel (pivot tables, VLOOKUP), PowerPoint