

# Liam Hilliard

[hilliardliam@outlook.com](mailto:hilliardliam@outlook.com) | [linkedin.com/in/liam-p-hilliard](https://linkedin.com/in/liam-p-hilliard) | [liamhilliard.com](https://liamhilliard.com) | Canadian and American citizen

## EDUCATION

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### Wilfrid Laurier University

*Bachelor of Business Administration and Computer Science Double Degree*

Waterloo, Ontario

*September 2023 – September 2025*

## EXPERIENCE

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### Software Developer Co-op

*Q Wealth Partners*

May 2025 – Present

*Toronto, Ontario*

- Designed and architected an OCR text-scanner with a TypeScript/React UI and Python Flask API backend to automate manual data entry, improving efficiency and reducing errors
- Integrated AWS Textract to parse documents and return structured JSON, pre-filling UI forms and streamlining workflows while ensuring robust error handling and clear status reporting
- Executed end-to-end upload and validation of assigned user tax records into the company tax predictor from a new data source, delivering under significant time pressure with limited oversight.
- Implemented full-stack updates, including bug fixes, feature enhancements, new form/field development, enhancing product stability, contributed to code reviews, and usability

### Technology Intern

*Q Wealth Partners*

May 2024 – April 2025

*Toronto, Ontario*

- Resolved customer support tickets by diagnosing implementation errors and data issues, coordinating fixes that improved user experience and reduced recurring problems
- Conducted QA on new releases by writing and executing test cases, logging defects and verifying fixes to ensure stable, high-quality deployments
- Developed automation scripts and back-end components with Python, JavaScript/TypeScript, and MySQL, eliminating repetitive manual work and accelerating development cycles
- Improved database reliability by identifying inconsistencies, removing duplicates, and standardizing entries, enhancing data accuracy for downstream reporting and end-users

## PROJECTS

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### NFL Stats Bot | *Python, FastAPI, React, MySQL, Docker*

June 2025 – Present

- Designed a Python FastAPI service to fetch and validate NFL statistics from public APIs, ensuring accurate data ingestion and reliable error handling
- Built a MySQL schema to store game, player, and team data, with queries and aggregation logic that generated custom stat summaries for end users
- Automated the scheduling and publishing of NFL highlights to X (Twitter) via API integration, expanding project reach and engagement without manual effort
- Developed a React front end with responsive design and intuitive search, enabling users to explore player, team, and game statistics easily
- Containerized the application with Docker, streamlining local development and simplifying deployment workflows

### Predictive Stock analysis | *Python, Flask, MongoDB, SQLAlchemy, QLib*

January 2025 – April 2025

- Designed and implemented backend services for a full-stack educational stock trading and portfolio management platform, supporting user authentication, trading workflows, and portfolio analytics
- Developed portfolio analytics and scoring logic by aggregating transaction history with historical market data, enabling accurate daily portfolio valuation and performance tracking
- Integrated a stock scoring pipeline using Microsoft QLib, ranking equities based on historical trends
- Designed RESTful API endpoints with Flask and SQLAlchemy, optimized a relational MySQL schema ensuring data integrity, and a MongoDB for quick data retrieval
- Wrote unit and integration tests validating end-to-end user flows, ensuring consistency and reliability

## TECHNICAL SKILLS

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**Languages:** Python, MySQL, Java, C

**Frameworks:** React, Node.js, Flask, FastAPI

**Developer Tools:** Git, VS Code, Slack, Postman, Sentry, AWS(S3, TextRact)