

Matthew Flaherty

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SUMMARY AND SKILLS

Recent Software Engineering graduate with 2+ years of full-stack development experience delivering production-ready applications at CAE and Phoenix Solutions. Proven track record of contributing to agile teams, optimizing system performance, and driving projects from design through deployment.

Programming Languages: Python, Java, C++, C, C#, Go, JavaScript, Typescript, SQL

Cloud & Tools: Microsoft Azure, AWS, Docker, Git, GitHub, CI/CD pipelines, Jira, SSMS, Linux, Windows, RabbitMQ

Frameworks/Libraries: ReactJS, Node.js, TensorFlow, PyTorch, scikit-learn, Power BI

Languages: English and French

EDUCATION

Bachelor of Engineering – Software Engineering

(January 2022 – May 2025)

Concordia University, Montreal, QC

- **GPA: 3.84**
- 2023-2024 Dean's List • Graduated with distinction
- **Relevant Courses:** Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Data Analytics, OOP

WORK EXPERIENCE

CAE - Full Stack Developer Intern

8 Months (September 2024 – April 2025)

- Designed and developed scalable front-end components for internal tools using ReactJS and TypeScript.
- Built and tested backend API endpoints in C#, enabling seamless integration and data transfer for 100+ active users.
- Created and optimized SQL queries, indexes, and database tables and views, reducing query runtime by 25% and improving data retrieval performance across several tools.
- Collaborated in an Agile Scrum team of 8-10 developers and product owners, contributed to 18 sprint cycles, delivered features on time, conducted code reviews, and participated in sprint planning and backlog grooming.

Phoenix Solutions - Junior Software Engineer (Internship)

12 Months (May 2023 – May 2024)

- Developed 15+ automated SQL-based reports, cutting reporting time by over 50% for the operations team.
- Built and deployed 5+ Power BI dashboards used daily by customers, increasing visibility into sales trends.
- Contributed to the company's updated CRM application by developing new user-facing features using ReactJS, CSS, and BBJ within an Agile sprint-based environment.
- Provided remote technical support to clients, offering guidance on ODBC connection setups.

PERSONAL PROJECTS

Market ML Dashboard – Real-Time Stock Prediction (TypeScript, Python, React)

(September 2025)

GitHub: [Market-ML-Dashboard](#)

- Built a real-time trading dashboard integrating live stock market data with FastAPI and WebSockets for low-latency updates.
- Implemented *Lightweight Charts* with indicators (RSI, MACD) for financial data visualization.
- Integrated *yfinance* and financial APIs to fetch valuation metrics (market cap, P/E ratio, volatility).
- Trained a machine learning model with scikit-learn to predict stock price movements, achieving improved accuracy in short-term trend detection.

Facial Recognition – Artificial Intelligence (Python)

(May 2024 – July 2024)

GitHub: [Facial-Recognition-AI](#)

- Developed an automated preprocessing pipeline for facial image datasets (duplicate removal, resizing, Haar cascade face-centering).
- Trained Convolutional Neural Networks (CNNs) on a dataset of 2,000+ facial images for emotion recognition, achieving 92% test accuracy and reducing validation–training loss gap by 10% through early stopping.
- Enhanced fairness in facial recognition, reducing performance disparity across racial groups by 15% through data augmentation (brightness normalization, grayscale conversion, and dataset balancing).