# Edward Ng

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## Experience

**Lead Software Developer** <span style="float:right">Feb 2025 – Present</span>

*Bank of Montreal* <span style="float:right">*Toronto, ON*</span>

- Directed a team of 5 onshore and offshore developers in building personal lending and mortgage application products for digital banking—boosting team productivity with the capacity to train 2–6 models per week with up to 97% accuracy
- Refined technical requirements with business teams to implement information extraction, document classification, and signature detection—helping design the end-to-end pipeline from file ingestion to the business-facing UI
- Led the team in vulnerability management by tracking, planning, and patching cloud and application security vulnerabilities across both non-production and production environments—reducing open issues by 61%
- Managed production releases by coordinating with PMs to schedule release windows and ensuring thorough testing in lower environments before deploying ECR, ECS, and Lambda stacks, and uploading ML models to S3—monitored stability through AWS CloudWatch and performed regression testing
- Supported sub-teams in Fraud Detection and Generative AI by supplying training data and providing infrastructure patching to maintain compliance with platform SLAs

**AI Engineer (Contract)** <span style="float:right">June 2024 – Jan 2024</span>

*Scale AI* <span style="float:right">*San Francisco, CA (Remote)*</span>

- Engineered complex prompts covering a variety of programming challenges across Python, SQL, and Java to train and evaluate LLM responses using reinforcement learning from human feedback
- Reviewed user-submitted tasks to assess the effectiveness of prompts and responses, ensuring high-quality training data for continuous LLM improvement and achieving stability for production deployment

**Software Developer** <span style="float:right">Sept 2022 – Aug 2023</span>

*Bank of Montreal* <span style="float:right">*Toronto, ON*</span>

- Developed a document classification and dynamic information extraction system utilizing AWS Textract, LSTM and BERT models, boosting business productivity while reducing costs
- Worked end-to-end in an agile environment by preprocessing data, training and testing the model, and creating postprocessing functions to enhance the model results which led to above 96% accuracy on information extraction
- Developed project code within AWS Lambda and created acceptance tests for these projects with a code coverage above 95%
- Performed continuous integration by improving extraction model's accuracy up to 23% using new production data and sending monthly performance reports to project managers by monitoring API usage on EC2

## Projects

**SpeakEase AI** | *TypeScript, React Native, Node, Express, Expo Go*

- Led a small team of student entrepreneurs in mobile application development, engineering a chatbot that enables users to practice conversational skills with pronunciation and sentence structure assessment in 15 languages
- Developed and optimized RESTFUL API using Node, Express, and Azure Speech SDK by restructuring data pipelines, reducing process runtime from 5 minutes to less than a minute
- Designed front-end interface using React Native and conducted comprehensive A/B testing, refining UI/UX elements based on user feedback
- Bundled app with Expo Go and released to Apple Store and Google Play Store, scaling to 500+ users globally

## Technical Skills

**Languages**: Python, Java, JavaScript, TypeScript, SQL, HTML, CSS
**Frameworks**: React, NodeJS, Express, MongoDB, REST API
**Libraries**: PyTorch, Tensorflow, Pandas, OpenCV, NumPy, Matplotlib
**Developer Tools**: Linux, AWS Lambda, S3, CloudWatch, ECR, ECS, GitHub, Docker, Jira, GitHub Copilot

## Education

**Queen's University** <span style="float:right">Sept. 2020 – June 2024</span>

*Bachelor of Science, Computer Science | Graduated with Distinction | 3.81 GPA* <span style="float:right">*Kingston, ON*</span>