

# Ali Rafiei

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[LinkedIn](#) • [Personal Website](#) • [GitHub](#)

## EDUCATION

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**University of Alberta** | Master of Science (Thesis) in Computing Science Sep 2023 - Apr 2025  
**University of Alberta** | Bachelor of Science in Computing Science, Dean's Honor Roll Sep 2019 - Apr 2023

## RESEARCH

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**Precision Health** July, 2024

- Implementing a state of the art ML model for diabetic retinopathy imaging

**NLP Workshop Paper** [[SemEval-2024](#)] Apr, 2024

- Prompt engineering of LLMs achieved first place scores in task B of the SemEval-2024 workshop
- Explored the use of LLMs for semantic textual similarity and relatedness between sentences

**Data Mining** Dec, 2023

- ChatGPT and Stack Overflow comparative study on developer queries

## EXPERIENCE

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**Software Engineer – Vipo.ai** May 2023 - Aug 2023

- Integrated 3 unique APIs into an AI-powered web application
- Delivered 4 large projects that utilised various AI APIs and LLMs

**Full Stack Developer** [[Project Portal](#)] [[Award](#)] Sep 2022 - Dec 2022

Community-Service Learning, University of Alberta

- Created a survey submission website that can handle thousands of users
- Agile scrum development with experience leading 80% of development as scrum master and product owner
- Team orientated development with hundreds of individually distributed tasks
- Finished product reduced a 50 hour per month task down to 1 hour

## LANGUAGES & FRAMEWORKS

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C/C++ | Python | Java | JavaScript | TypeScript | HTML | CSS | Express | Node.js | React | Angular | Django | SQL | MongoDB

## PROJECTS

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**Text to Speech App:** [[GitHub](#)] May, 2023

- Python GUI application with full text to speech, image to text, and text editor functionality
- Combined 4 unique and conflicting python libraries into 1 streamlined program

**Pokémon Calculator Website:** [[GitHub](#)] [[Website](#)] (24h) HackED: Jan, 2023

- Website and mobile application calculator for strongest/weakest type pokémon
- Indexed over a thousand different Pokémon and their attributes

**Lecture Timestamp Tool:** [[GitHub](#)] (24h) HackED: Jan, 2022

- Timestamp application that organises slide transitions from online lecture videos
- Efficiently renders 3+ hour long videos in less than 4 minutes

**QR Scanner App:** [[GitHub](#)] Feb - Apr, 2022

- Android app that allows people to collect unique QR codes and compete against their friends
- Stored hundreds of user data, geolocations, codes, and images in a secure database
- Used GitHub version control to document and implement 40+ software features