

Kareem El Assad

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Education

Carleton University

Bachelor of Engineering in Software Engineering

GPA: 3.22 / 4.00

Expected Graduation: May 2023

Available for 4 months beginning May 2022

Relevant Skills (*Proficient*): Python, JavaScript, TypeScript, Java, and C

Activities:

- **Event Lead** for the IEEE Student Professional Awareness Conference Ottawa, 2020-2021
- **Conference Delegate:**
 - IEEE Rising Star Conference Las Vegas, 2020
 - Conference on Diversity in Engineering Toronto, 2019
 - Canadian University Software Engineering Conference Montreal, 2019
- **External Director** for the IEEE Carleton Student Branch 2019-2020

Work Experience

- **Software Engineering Intern** *Ciena* May 2021 – Sept 2021
 - Developed internal tooling for deploying microservices and managing network devices.
 - Reduced the time spent interpreting the overall sanity of production builds by automating the generation of a summary report using *Cython*.
 - Integrated data-driven programming with existing software using *Yang data modeling*, decreasing required code by over 50%
 - Developed critical features with an *Agile* team for new product releases and ensured all feature requirements were met. Used *Git* for version control and *Jira* for issue tracking.
- **Software Engineering Intern** *Bell Canada* Sept 2020 – Apr 2021
 - Designed, developed, and implemented a *REST API* using *FastAPI* in *Python* to automate the testing of Polycom devices.
 - Used *Kubernetes* to orchestrate the deployment, scaling, and management of *Docker* containers.
 - Integrated *Kafka* pipelines to provide a unified, low-latency solution for handling real-time data.
- **Campus Ambassador** *Ciena* May 2021 – Sept 2021
 - Planned multiple networking events between Ciena and different Engineering societies.
 - Helped Ciena advertise and reach many students, boosting the hiring of local talent.

Projects

- **Automated Crypto Trading Bot**
 - Designed and developed an automated crypto trading bot using *Python* and the *Binance WebSocket API*.
 - The application was hosted on *Oracle Cloud* and achieved 140% returns within the first two months. Unfortunately, the project was shutdown once Binance was banned in Ontario.
 - Created a *Python* Chat Bot that remotely managed the bot and sent daily updates regarding the applications health and the trading progress.
- **Sudoku Online Puzzle Solver**
 - Created a *Python* application that used a backtracking algorithm to solve any given Sudoku board.
 - The application uses the *Selenium library* to interface with *Sudoku.com*. It parses the randomly generated puzzle, solves it locally in *Python*, then inputs it on *Sudoku.com*.