

Contact



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Profile

A highly motivated fourth year Computer Engineering student at the University of Toronto. I have a keen interest in all thing DevOps, machine learning, software development and robot control

Skills

Programming Languages

- C / C++
- Python
- Ruby
- Bash
- PyTorch
- TensorFlow
- MATLAB
- ARM Assembly
- Verilog

Technical Skills & Tools

- Git
- Gitlab CI/CD
- Jenkins
- Nginx
- Chef
- Ansible
- Docker / Kubernetes
- Terraform
- AWS
- Active Directory
- Nagios
- Selenium
- Atlassian Jira
- Confluence
- Prometheus
- Grafana
- ELK stack

Languages

- English
- Arabic
- French

Kareem Elmaaddawy

Education

Bachelor of Applied Science, Computer Engineering

Minor in Artificial Intelligence, Engineering business certificate

University of Toronto, Toronto, ON

Sept 2019 - April 2024

- **Relevant courses:** Data Structures and Algorithms, Artificial Intelligence Fundamentals, Programming Fundamentals, Software Communication and Design, Introduction to Control Systems, Signals and Systems, Introductory Electronics, Computer Organisation, Digital Systems

Experience

DevOps Engineer | Rakuten Kobo | **May 2022 - Aug 2023**

- Provide support and help troubleshoot issues reported by other business units as a member of Site Ops Support Desk group
- Collaborated with the Site Ops Automation group, at the automation of our on-demand provisioning of 30 development environments comprised of 25 virtual machine servers each.
- Participated in remote collaboration efforts with offices in Europe on projects using Kubernetes, Prometheus monitoring and GitLab for source code, continuous integration and deployment.

Client Engineer Assistant | University of Toronto | **Jan 2020 - April 2020**

- Assessed clients requirements to relieve constant flooding threatening backyards and crawl space
- Collaboratively worked in a team of four to arrive at a comprehensive conceptual design comprising of a deck built over pumping system
- Implemented proposed solution, resulting in roughly \$7000 in annual savings

Engineering Projects

Race Recognition with Deep Neural Networks (Github:

<https://github.com/KareemElMaaddawy/Race-Classifier>)

- Processed and cleaned data from various datasets to feed into neural network model
- Implemented VGG11 model from the ground up using PyTorch
- Model able to successfully classify test data with 75% accuracy

Mapper Project (Github: <https://github.com/KareemElMaaddawy/Mapper-Project>)

- Implemented a Geographic Information System inspired by Google Maps on C++
- Handled both the front-end implementations, designing a friendly UI to support complex features
- Incorporated a solution for the travelling salesman problem utilising A*s algorithm and Simulated Annealing