

Ke Li

(780) 885-0852 | kegrad2023@gmail.com | Toronto, ON, Canada
damianli.com | [Linkedin](#)

EDUCATION

University of Toronto, ON, Canada <i>Master of Engineering</i> <ul style="list-style-type: none">• Major Area of Focus: Computing Engineering & Identity, Privacy and Security (IPS)• Coursework: <i>Computer Security, Cloud Computing</i>	2024 – Present
University of Alberta, AB, Canada <i>Bachelor of Science</i> <ul style="list-style-type: none">• Awards: Dean’s Honor Roll (22-23)• Major Area of Focus: Computing Science• Coursework: <i>Operating System, Computer Networks, Computer Architecture, Web Development, Mobile App Development, Interface Design, Database Management, Machine Learning, Agile Methodology</i>	2019 – 2023


CERTIFICATE

Google Cybersecurity Professional Certificate	Apr 2024
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WORK EXPERIENCE

Full Stack Student Developer (4 months) <i>Alberta Language Technology Lab (ALT Lab) Edmonton, Canada</i> <ul style="list-style-type: none">• Participated as a Scrum team member in the development of a web-based visual dictionary application, utilizing technical skills in Django, React, D3.js, and Docker to provide English and Cree word definitions with the ability to expand and collapse semantic categories for improved clarity.• Implemented front-end visualization page with the use of React and D3.js.• Writing Dockerfile for streamlined continuous deployment.• Used MKDocs to edit online documentation.	Jan - Apr 2023
Backend Engineer Intern (4 months) <i>Nandou Six Star System integration Co., LTD Wuhan, China</i> <ul style="list-style-type: none">• Contributed as a member of the backend development team for the Dongfeng Pilot Autopilot project, using Django to implement interfaces.• Deploying endpoints to the company's online server with the use of Gunicorn and Nginx.• Experienced in data analysis, database documentation writing and maintenance.	May - Aug 2021

PROJECT EXPERIENCE *(portfolio)*

Computer Security CTF blog <ul style="list-style-type: none">• Binary Exploitation: Buffer Overflow Format String Attack Double free Attack ROP • Network Vulnerability: XSS Attack CSRF Attack SQL Injection 	Jan - Apr 2024
Software Define Network Performance Analysis website <ul style="list-style-type: none">• Visualize the SDN network, let users build their own sdn network topology and respond with the simulation performance of their own defined network. Using Mininet, React, ReactFlow, Django, AWS EC2.	Mar - Apr 2024
Web Application - Vocabulary Explorer Documentation <ul style="list-style-type: none">• Participated as a Scrum team member in the development of a web-based visual dictionary application, utilizing technical skills in Django, React, D3.js, and Docker to provide English and Cree word definitions with the ability to expand and collapse semantic categories for improved clarity.• (Video demo:  Vocabulary Explorer)	Jan - Apr 2023
Web Application - Social Distribution (Github page) <ul style="list-style-type: none">• Contributed as a member of a four-person team to develop a web application, using Django, React, and PostgreSQL to facilitate user engagement and social sharing, including the ability to share posts, comment and like posts, and follow preferred users.	Sep - Dec 2022
Distributed System Simulation - Socket_Server (Github page) <ul style="list-style-type: none">• Individual project. Developed a multi-clients & server interaction simulation using C and socket API. Enabling the server to process and respond to multiple clients requests concurrently through multi-threading.	Nov - Dec 2022
Linux OS Application - CLI-Shell (Github page) <ul style="list-style-type: none">• Individual project. Developed a command-line interface using C. Implementing functionalities such as process inspection, creation, termination and resume.	Sep - Nov 2022

SKILLS

- C++, C, Python, Javascript, Java, [RISC-V](#), X86
- Familiar with Binary Exploitation, Network Attack, HMAC, TOTP Authentication
- Django, Gunicorn, React, D3.js, ReactFlow, Git, Material UI, Ant Design
- Experienced in writing TCP-like Protocol, SDN protocol, Mininet
- Docker, Kubernetes, Nginx, AWS, GCP