Ke Li

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EDUCATION

University of Toronto, *ON, Canada*   *2024 – Present*
Master of Engineering
- **Major Area of Focus: Computing Engineering & Identity, Privacy and Security (IPS)**
- **Coursework:** *Computer Security, Cloud Computing*

University of Alberta, *AB, Canada*   *2019 – 2023*
Bachelor of Science
- **Awards:** *Dean's Honor Roll (22-23)*
- **Major Area of Focus: Computing Science**
- **Coursework:** *Operating System, Computer Networks, Computer Architecture, Web Development, Mobile App Development, Interface Design, Database Management, Machine Learning, Agile Methodology*

CERTIFICATE

Google Cybersecurity Professional Certificate   *Jan - Mar 2024*

WORK EXPERIENCE

Full Stack Student Developer (4 months)   *Jan - Apr 2023*
Alberta Language Technology Lab (ALT Lab) Edmonton, Canada
- Participated as a Scrum team member in the development of a web-based visual dictionary application, utilizing advanced technical skills in Django, React, D3, and Docker to provide English and Cree word definitions with the ability to expand and collapse semantic categories for improved clarity.
- Implemented advanced **React** and **D3** architecture to create an interactive, visually appealing front-end display of all the words in the dictionary.
- Adopted **Docker** for streamlined continuous deployment.
- Used MKDocs to edit online documentation, providing stakeholders with easy access and understanding of the project.

Backend Engineer Intern (4 months)   *May - Aug 2021*
Nandou Six Star System integration Co., LTD Wuhan, China
- Contributed as a member of the backend development team for the Dongfeng Pilot Autopilot project, using Django to implement interfaces and connect to the databases.
- Deploying endpoints to the company's online server with the use of **Gunicorn** and **Nginx**.
- Experienced in data analysis, manipulation, database documentation writing and maintenance.

PROJECT EXPERIENCE *(portfolio)*

Web Application Development - Social Distribution   *(Github page)*   *Sep - Dec 2022*
- 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.
- Organizing team meetings, arranging peer coding sessions.
- Implemented user interface designed using Figma.

Web Application Development - Vocabulary Explorer *Documentation*   *Jan - Apr 2023*
- Participated as a team member in the development of a cutting-edge web-based visual dictionary application, utilizing advanced technical skills in Django, React, D3, and Docker to provide comprehensive English and Cree word definitions with the ability to expand and collapse semantic categories for improved clarity.
- Implemented advanced React and D3 architecture to create an interactive, visually appealing front-end display of all the words in the dictionary.
- Adopted Docker for streamlined continuous deployment, ensuring efficient updates and maintenance of the application. (*Video demo*: ▶ Vocabulary Explorer)

Linux OS Application - CLI-Shell   *(Github page)*   *Sep - Nov 2022*
- Individual project. Designed and developed a custom command-line interface utilizing C and Linux to enhance user interaction and efficiency. Implementing functionalities such as process inspection, creation, termination and resume.

Distributed System Application - Socket_Server   *(Github page)*   *Nov - Dec 2022*
- Individual project. Developed a cutting-edge client-server interaction simulation utilizing advanced C programming and socket API. Demonstrated software engineering skills by enabling the server to process and respond to multiple client requests and information concurrently with high efficiency through multi-threading.

SKILLS

- C++, C, Linux, Java, Socket API, RISC-V, X86, ARM
- Familiar with Binary Exploitation, HMAC, TOTP Authentication
- Experienced in writing TCP-like Protocol, Scripting experience with Bash
- Docker, AWS, Nginx, Gunicorn, Apache, Heroku, Agile Methodology
- Python, Django, Javascript, React, D3, Git, HTML, CSS, Figma, Android Studio