

Ke Li

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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)	2023 – 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: Operating System, Computer Networks, Computer Architecture, Web Development, Mobile App Development, Interface Design, Database Management, Machine Learning, Agile Methodology	2019 – 2023

WORK EXPERIENCE

Full Stack Engineer Intern (Student Part-Time) (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 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.	Jan - Apr 2023
Backend Engineer Intern (Internship) (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 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.	May - Aug 2021

PROJECT EXPERIENCE

Web Application Development - 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.• Organizing team meetings, arranging peer coding sessions.• Implemented user interface designed using Figma.	Sep- Dec 2022
Android Application Development-Habot (Github page) <ul style="list-style-type: none">• Collaborated in a group of five to develop an android application that aims to help people record their daily habits, applied solid programming skills in Android Studio and Java to realize a series of functions,including adding, deleting, changing habits, and presenting the habits of the day separately.• Designed the user interface of the software, drew UML diagrams, and integrated google APIs to allow the app to obtain the permissions of the phone's camera and photo album and users' real-time locations.• Used Firebase to store online data, allowing different users to log in to their accounts on different devices.	Sep-Dec 2021
Web Application Development - Vocabulary Explorer (Documentation) <ul style="list-style-type: none">• 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)	Jan - Apr 2023
Linux OS Application - CLI-Shell (Github page) <ul style="list-style-type: none">• Individual project. Designed and developed a custom command-line interface utilizing C programming language and Linux operating system to enhance user interaction and efficiency. Demonstrated mastery in software development by implementing functionalities such as process inspection, creation, termination and resume.	Sep - Nov 2022
Distributed System Application - Socket_Server (Github page) <ul style="list-style-type: none">• Individual project. Developed a cutting-edge client-server interaction simulation utilizing advanced C programming and socket API. Demonstrated exceptional software engineering skills by enabling the server to process and respond to multiple client requests and information concurrently with high efficiency through multi-threading.	Nov - Dec 2022

SKILLS

- C++, C, Linux, Socket Programming, RISC-V, Scripting experience with Bash
- Experienced in writing TCP and Ethernet Protocol
- Docker, AWS, Nginx, Gunicorn, Apache, Heroku, Agile Methodology
- Python, Django, Javascript, React, D3, Git, HTML, CSS, Figma, Android Studio