

# Luke Ichpekov

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## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, SQL, HTML/CSS, Java, C++, C, Verilog

**Tools & Frameworks:** React, Linux, Git, Docker, Grafana, Prometheus, GraphQL, AWS, Flutter, Vue

## EXPERIENCE

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### Software Engineering Associate

Jan 2024 – Present

*Siemens*

*Waterloo, ON*

- Established a robust distributed architecture with **Docker**, **Kubernetes**, and **Kafka** to efficiently process and handle billions of data points daily, crucial for detecting battery defect formations in EV manufacturing.
- Engineered a **RESTful API** in **Golang**, allowing clients to seamlessly leverage data from **Apache Druid**.
- Implemented and configured a high-performance **Apache Druid** database to store and manage data.
- Played a pivotal role in optimizing the project's core functionalities with **Golang**, including the implementation of critical features such as real-time data processing and ensuring seamless handling of large data volumes.

### Software Engineering intern

Jan 2023 – May 2023

*League*

*Toronto, ON*

- Contributed to the development and maintenance of a web application using **React** and **TypeScript**, resulting in a substantial increase in user engagement.
- Utilized various **React hooks** to streamline state management, resulting in a considerable improvement to application performance and a sizable reduction to code complexity.
- Designed and implemented new React functional components, playing a pivotal role in significantly boosting user satisfaction and notably reducing support requests.
- Actively contributed to the development of an automated test suite using **Jest**, resulting in a significant reduction in testing time and an appreciable enhancement in bug detection and resolution efficiency.

### Software Developer

May 2022 – Aug 2022

*FarmLink*

*Toronto, ON*

- Developed a contract information extraction service using **OpenCV** and **multiprocessing** libraries, successfully eliminating the need for manual data entry and significantly improving data accuracy.
- Deployed a highly scalable service utilizing **Docker Swarm**, **Fast API**, **Rabbit MQ**, and **Celery**, achieving substantial server cost reductions and significantly enhancing system response times.
- Integrated the service seamlessly into an existing **Vue** application, leading to increased user adoption and a notable reduction in customer support requests.
- Improved yearly revenue predictions by over 10% through the modification of existing **ML algorithms**, resulting in a substantial increase in net revenue and a significant reduction in forecasting errors.

### Software Engineering Intern

Sep 2021 – Dec 2021

*Seismic*

*Toronto, ON*

- Crafted innovative UI features with **Angular**, **React**, and **TypeScript**, contributing to a notable boost in user engagement and a significant reduction in support requests.
- Streamlined backend processes using **Node.js/Express** and **MongoDB**, resulting in a considerable reduction in data processing time and a significant increase in system responsiveness.

### Web Designer

Jan 2021 – March 2021

*Communitech*

*Toronto, ON*

- Increased web traffic and online sales for six small businesses through strategic web content creation and e-commerce store development.

## EDUCATION

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### University of Waterloo

Waterloo, ON

*Bachelor of Applied Science in Computer Engineering*

*Sept. 2020 – May 2025*