

SUMMARY

- **97% average in University of Waterloo Data Structures and Algorithms:** beating the class median by 20%
- **Interned twice at Facebook/Meta:** Wrote several important web applications, one of which is used by thousands of Artificial Intelligence researchers, another to maintain application health at Meta
- **Co-founded startup logistics software company:** part-time **CTO** for a small team building software for small warehouses in Ontario, Canada
- **Lead and founding front end engineer at Kinme Technologies:** Wrote and deployed entire front end web app from scratch over the course of 4 months for a startup company in the real-estate field
- **Respected student leader at the University of Waterloo:** performed as the Athletic Director for the Engineering Society and is was the Class Representative of the Computer Engineering Class of 2023

EDUCATION

University of Waterloo Bachelor's of Applied Science, Honours Computer Engineering	Waterloo, Ontario 2018–2023 (Predicted)
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EXPERIENCE

Federato AI Frontend Engineer / Software Engineer	Palo Alto, California August 2022 –Present
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- Developing the web application / interface for the next generation of **Artificial Intelligence Software for Insurance Risk Analyzers** using **React.js**, **Typescript** and **Graphql**
- Constructing a unique **React design library** for use within all Federato applications meeting **modern accessibility standards**
- Communicating with design and UX team to create **accessible and efficient** interfaces for customers

Facebook / Meta Fullstack Engineer / Front end Engineer	New York, New York January 2022 –April 2022
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- Developed core infrastructure application consisting of many complex graph traversal algorithms from scratch using **React.js**, **Recoil** and **Flow.js**
- Made use of **virtualized tables** and other advanced front-end techniques
- Developed back-end services to complement web application using **PHP / Hack**
- Made unique **architectural design proposals** to facilitate the execution of **industry best practices** in complex and obscure algorithms, data structures and UI while maintaining **accessibility standards**

Facebook / Meta Fullstack Engineer / Frontend Engineer	New York, New York January 2021 –April 2021
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- Created an animated interactive 3D environment on **React** by using **Three.js** and **GSAP** to load and animate an **Autodesk FBX** file via the **WebGL** engine
- Contributed to open source Mephisto project: github.com/facebookresearch/mephisto, a service for **Amazon MTurk** helping thousands of users crowdsource artificial intelligence data
- Developed unique **end to end testing framework from scratch** using **Javascript**, **Node.js**, **Jest** and **Puppeteer** to test monolithic **Python Flask apps** using fundamental concepts of **concurrency**
- Developed command line interface using the Python **Click** framework

- Developed a **fullstack monolithic web application** using **Flask and React** published as a react template named “**cra-template-mephisto-review**”
- Upgraded existing **React hook** published to NPM as “**mephisto-review-hook**”

Kinme Technologies

Toronto, Ontario

Lead Frontend Engineer / UI Engineer

May 2020 –December 2020

- Lead the founding of Kinme, a buying and selling platform for Canadian real estate services
- Engineered all initial front end facets of the platform **independently and from scratch** using **React.js** deployed to an **Express.js** server with an **NGINX** proxy on an **AWS EC2** container
- App was built using **Axios**, **Redux**, **React-Router**, and **Material UI**
- Currently serving a private beta for **100** or so clients at kinme.ca

SAP

Waterloo, Ontario

Big Data Tooling Developer (Full Stack Developer) | JavaScript, Java, JUnit, XML September 2019 –December 2019

SAP

Waterloo, Ontario

Android SDK Developer | Java, JUnit XML,

January 2019 –April 2019

PROJECTS

See full list of projects on <https://github.com/sghmk12>

- **Shipsolver:** React / TypeScript, Flask / Python, HTML / CSS
 - Working part-time as CTO for small startup team creating a logistics management solution for small warehouses in Ontario, Canada
 - Working with one customer to develop a **SAAS** application to process shipment delivery tickets and manage employees
 - Expected to launch MVP in April 2023
- **AI Real Estate Price Estimator:** React / Typescript, Chakra UI, Google Maps API
 - **Typescript** based **React** app deployed using an **Express.js** server allows users to find AI approximated home prices in Toronto
 - **Git:** github.com/sghmk12/AI-Real-Estate-Valuator-UI

SCHOLARSHIPS AND AWARDS

- University of Waterloo President’s Scholarship 2018
- Abbey Park High School Advanced Placement Computer Science Award 2018

EXTRACURRICULAR ACTIVITIES

- Vice President Social, UW Electrical and Computer Engineering Society May 2020–August 2021
Chosen as the Vice President for Social Affairs. Organized weekly social events
- Class Representative, UW Electrical and Computer Engineering Class of 2023 January 2020–December 2020
Mediated dialogue between ECE students and professors in order to maintain efficient course progression
- UW Engineering Society Representative January 2020–April 2020
Elected Engineering Society representative by student body. Voted on important policies on a semi-monthly basis
- UW Engineering Society Director of Athletics January 2020–April 2020
Organized athletic events for engineering students campus wide