

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 frontend engineer at Kinme Technologies:** Wrote and deployed entire client 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
<ul style="list-style-type: none">– Developing the web application / interface for the next generation of artificial intelligence software based in risk analysis using React.js and Typescript– Developing the corresponding API using Graphql– Constructing a unique React design library for use within all Federato applications meeting modern accessibility standards	

Facebook / Meta Fullstack Engineer / Frontend Engineer	New York, New York January 2022 –April 2022
<ul style="list-style-type: none">– 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 web development 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
<ul style="list-style-type: none">– Created an animated interactive 3D environment on React by using Three.js and GSAP to animate an FBX file via the WebGL engine– Contributed to the 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 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 public 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 frontend facets of the platform independently and from scratch using **React** deployed to an **Express** 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

September 2019 –December 2019

- JavaScript, Java, JUnit, XML

SAP

Waterloo, Ontario

Android SDK Developer

January 2019 –April 2019

- Java, JUnit XML

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

EXTRACURRICULAR ACTIVITIES

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

SCHOLARSHIPS AND AWARDS

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