Sathira Katugaha

Website: sghmk12.github.io
Phone: +1 416 731 0593
Email: sathirakatugaha@gmail.com

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** training and managing 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	Waterloo, Ontario
Bachelor's of Applied Science, Honours Computer Engineering	2018–2023 (Predicted)

EXPERIENCE

Federato AI — Palo Alto, California
Frontend Engineer / Software Engineer — August 2022 –Present

- 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 — New York, New York
Fullstack Engineer / Frontend Engineer — January 2022 –April 2022

- 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 — New York, New York
Fullstack Engineer / Frontend Engineer — January 2021 –April 2021

- 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
  - Trained and managed two summer interns from the University of Waterloo
  - Working with one customer to develop the product interface
  - 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   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

SCHOLARSHIPS AND AWARDS

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