

RAHMA GILLAN

☎ 519-890-0662 | ✉ rgillan@uwaterloo.ca | 🌐 github.com/rahmagillan | 💼 linkedin.com/in/rahmagillan

SKILLS

Languages	JavaScript, C/C++, SQL, Python, Kotlin, Java, HTML/CSS, Go, Scheme
Frameworks/Libraries	React, Next.js, Kafka, REST, gRPC, Protobuf, Node.js, Express, Bootstrap, Material UI
Data Storage	PostgreSQL, MySQL, Firestore, MongoDB, Dgraph, DynamoDB, S3
Tools	Git, AWS, GCP, Docker, VSCode, Postman, Jira, Figma, Slack, GSuite, Notion

EXPERIENCE

AirMatrix 🔗	Apr. 2021 – Aug. 2021
Software Engineering Intern	Toronto, ON (Remote)
<ul style="list-style-type: none">Reduced drone communication latency by 700% by replacing REST endpoints with gRPC in C++ and JavaScript.Implemented a Kafka producer to load balance data streaming 2 times more telemetry from live drones.Interfaced with drone messaging protocol to scale concurrent initialisation requests with a blocking queue.Refactored monolith to microservice architecture removing 5000 lines of C++ and SQL redundancies.	
Clove 🔗	Mar. 2021 – Present
Founding Engineer	San Diego, CA (Remote)
<ul style="list-style-type: none">Research-based product sustainability startup seeking venture capital funding and serving 10 online businesses.Developed merchant-facing Next.js Shopify App which automatically embeds unique iframe labels into stores.Designed back-end architecture to render custom forms from NoSQL database and store multiple responses.Integrated Firebase Auth, Google SSO, and stored Shopify OAuth tokens to enforce read and write permissions.	
Accenture	Jun. 2020 – Aug. 2020
Software Engineering Analyst	Toronto, ON (Remote)
<ul style="list-style-type: none">Developed a proof of concept solution for the storage and transfer of health data built with React and Python.Utilized Hyperledger Aries and Indy to store health credentials within a user-centric blockchain network.Optimized REST API endpoints to improve response times by 33% to fetch COVID-19 vaccine and test information.	

PROJECTS

Fantasy E-Sports	Jun. 2021 – Aug. 2021
<ul style="list-style-type: none">League of Legends inspired app allowing users to compete in fantasy sports built with Next.js, Express, and SQL.Created a Python script to parse 12000 rows of data into MySQL relations adhering to an ER diagram.Built searchable player, team, and match pages with pagination utilizing modular React components.	
Shipmates 🔗	May 2021
<ul style="list-style-type: none">Mobile application allowing individuals to group online orders to reduce their carbon footprint and save money.Built the Express server with Node.js which utilized REST endpoints create, read, and write from NoSQL tables.Developed endpoint to send custom phone notifications using Twilio x Courier integration.	
Sorcery	Nov. 2020 – Dec. 2020
<ul style="list-style-type: none">Two-player card game with text-based interface built in C++ inspired by Magic the Gathering and Yu-Gi-Oh.Implemented MVC to support multiple interfaces and decorator design pattern for scalability and custom cards.Enforced RAII by using smart pointers and dynamically loaded the cards from customizable .txt files.	

LEADERSHIP

Hack the North 🔗	Jan. 2021 – Sep. 2021
Logistics Team Lead	Waterloo, ON
<ul style="list-style-type: none">Led the logistics team (15 hours per week) in planning Canada's biggest hackathon with 3000+ participants.Founded new career-based initiatives resulting in 100+ hours of coffee chats and 400+ resumes critiqued.Spearheaded new custom team formation tool with 1000+ users overseeing features, timelines, and development.	

EDUCATION

University of Waterloo	Sep. 2019 – Aug. 2024 (expected)
Business Administration and Computer Science Double Degree	Waterloo, ON