

# KAMAL ALI

Seeking Fall 2022 Internships (Sept to Dec)

## EDUCATION

### Memorial University of Newfoundland, Canada

B. Eng. Computer Engineering | Class of 2023 | GPA 3.91/4

## EXPERIENCE

### Software Developer (Cloud Automation)

Verafin | St. John's | Jan 2022 - Apr 2022

- Deployed new microservices to AWS using Terraform
- Implemented a high throughput pipeline using lambdas and queues for a job acknowledgement system

AWS Java Terraform

### Junior Programmer Analyst Intern

InnovMarine | Remote | May 2021 - Aug 2021

- Optimized a VBA application to run 20 times faster, resulting in significant savings in time and money
- Improved, maintained, and documented the application
- Established a git workflow to incorporate Pull Requests and more frequent commits
- Co-planned and managed sprints on GitLab

VBA Python Git Documentation

### Hardware Support Intern

Nokia | Ottawa | Jan 2020 - Apr 2020

- Conducted signal integrity tests using oscilloscopes and spectrum analyzers on routers
- Debugged hardware issues and reworked 0402 components
- Eliminated manual search time by writing a Perl script

Soldering Schematics Linux Firmware

### Research and Design Intern

Memorial University | St. John's | Jun 2019 - Aug 2019

- Performed heat analysis on a prototype and researched materials to provide design recommendations
- Characterized a product's properties by designing, conducting, and documenting 20 experiments in 6 weeks

Calculus Scientific Method Design

## EXTRA-CURRICULARS

### Student Advisor

Google Developers Student Club | Jul 2021- Present

- Assisting the launch of the first Google Developers Club at MUN

### Lead Organizer

Hack Frost NL | Oct 2020 - March 2022

- Founded the university's first large-scale hackathon. [link](#)
- Built the team and led the planning for the first two hackathons
- Managed the team growth and recruitment efforts

### Junior Designer

Paradigm Hyperloop | Oct 2018 - Oct 2020

- Participated in SpaceX Hyperloop Competition in Los Angeles
- Developed and documented Python scripts to automate tasks using Google Drive API (learned Git in the process)

## CONTACT

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## SKILLS

- **Languages:** Proficient in C++, Java, Python, and VBA. Familiar with C# and Ruby
- Quantum Computing: actively learning, familiar with Qiskit and PennyLane.
- Clean coding and documentation skills
- Working experience with AWS and Terraform
- Solid understanding of web technologies
- Confident presentation skills
- Strong initiative and always seeking improvement
- Actively developing my leadership skills
- To-the-point, honest feedback

## PROJECTS / HACKATHONS

- **Bounce Health Hackathon 2022:** pitched a real-time app connecting specialists to rural physicians, came in 2nd place.
- **QHack2022:** attended technical sessions and participated in quantum coding competition
- **U-Calendar** (Jan-Apr 2021): Desktop calendar for university students. Technologies used: Java, JavaFX, SQLite, CSS, Maven, UML, & Git. [Link](#)
- **MakeUofT 2020:** Basketball game with Ultrasound sensors and Arduino. [Link](#)
- **First React app:** simple recipe search app. [Link](#)
- **IEEE Xtreme Programming 2019 & 2021:** Ranked 1243th and 530th respectively. [Link](#)
- **Entrepreneurial Externship 2019:** interned at a company to discover potential startup ideas. Developed and pitched an idea in 4 weeks.

## AWARDS RECEIVED

- Memorial's Engineering Dean's List (x2)
- MUN International Undergraduate Scholarship

## READINGS / ONLINE COURSES

- Programming Quantum Computers (Johnston) Jan 2022- Present | Self-reading
- AWS Certified Developer Associate Jul 2021 - Oct 2021 | Udemy
- Intro to Quantum Computing Sep 2020 - Dec 2020 | The Coding School