

+1 (514) 882-4471

### **Education**

#### McGill University, Quebec, Canada

September 14' – present

B.Eng. in Computer Engineering

(Expected graduation December 19')

- McGill Undergraduate entrance award scholarship: Awarded to top 1-2% of a class
- Academic Interests: Signals and Systems; Operating Systems; Embedded Systems
- **GPA:** 3.52

# **Professional Experience**

# District m, Montreal, Canada

January 17' - August 17'

Software Development Internship; Full Stack developer

- Intern for 8 months; full stack developer using React Javascript and Symfony3 frameworks
- Agile, TDD development of a web product (Team 'Sprint' workflows)
- Used React-Redux and wrote middleware to hook into the Redux life cycle for a fluid UX
- Built forms from symfony3 native components, manipulated a MySQL database, and validate API form-data
- JIRA, Bamboo and Bitbucket for project management, continuous testing and integration, and git version control
- Accountable for producing high quality code within my scope of work

#### Mobeewave, Montreal, Canada

May 18' - December 18'

Embedded Systems Internship; Quality Assurance and Testing

- 8 Month internship; ran test suits for L2 Certification with Mastercard using the KaNest ICC Software
- 2 week Sprints, git and Clubhouse workflow
- Analysed test logs generated by our product from L2 Mastercard test plans to write up a progress report
- Wrote clear and concise Excel reports to send back to the lead Engineers

# **Engineering Projects**

Autonomous Drone Navigation -Osnabrueck University, Germany https://github.com/kholysa/CopterMove

May 19' - August 19'

- Designed and developed a python solution to path plan, localise and navigate a Parrot drone
- Designed the software with regards to constraints such as moving accuracy, and navigation in a closed greenhouse
- Built separate python libraries to keep modularity high (pip package "path-planning-kholysa")
- Interface my solution with a previous master's student's work to accurately localise the drone

Magnetic Resonance Spectroscopy Data Analysis – McGill Design Project https://bitbucket.org/selkholy/mrs-designproject/src/master/

September 18' - April 19'

- Working with Prof. Jamie Near to design and build a software tool that analyses MRS data alongside MRI data
- Built a modular and scalable Python project with clear and concise documentation
- Used previously built tools by the Neuroscience community to test the results produced by my software

#### **Magic Mirror**

https://github.com/kholysa/MMirror

June 16' – August 16'

- Designed and developed an open source C# program to run on the Raspberry Pi (running Ubuntu Mate)
- Used Rest-APIs from multiple servers to get weather and stock data, using algorithms to view relevant data
- Interfaced the program with "E18-D50NK" I.R. sensor to switch between Weather and Stock view

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Languages: English (fluent) Arabic (fluent) French (basic conversation) Rest-ful Linux **HTML** Continuous React Operating C# & .NET Computer: Php Symfony Excel JS applications shell Systems Integration Passion: Snowboarding Football Falafel Squash Theatre tech