

# Irmak Pakis

SOFTWARE ENGINEER

☎ (438) 927-6876 | ✉ [nihal.pakis@mail.mcgill.ca](mailto:nihal.pakis@mail.mcgill.ca) | 🌐 [nirmakpakis](#) | [in](#) [irmakpakis](#)

## Education

### McGill University

Montreal, Canada

BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING, GPA: 3.45/4.0

May 2019

Relevant Courses: Algorithm Design, Database Systems, Data Structures, Artificial Intelligence, Design Principles And Methods, Signals and Systems, Operating Systems

## Skills

**Languages** Java, C, Python, JavaScript, C, Bash, SQL, Swift

**Frameworks** Spring, NodeJS, AWS, Docker, Neo4j

## Experience

### CloudOps

Montreal

INCOMING CLOUD ENGINEER INTERN

Summer 2020

### RBC - Capstone Project

Montreal

SOFTWARE ENGINEER

September 2019 - May 2020

- Software Engineering Graduation Project in collaboration with RBC bank in Canada.
- Built a network model of RBC client using a large dataset.
- Created a Graphical Database using Neo4j from a large dataset stored in Hadoop.
- Visualised the data model using Neo4j and Bloom.

### Invstr

Istanbul

SOFTWARE ENGINEER INTERN

Summer 2019

- Migrated the iOS application from Objective-C to Swift 5.
- Optimized the code after several unit tests and tested the iOS application using Xcode.
- Utilized the MVVM software architecture to improve software engineering practices.

## Projects

### DNS Client

- Implemented a DNS client using sockets in Java.
- Sends a request packet to the server for the given domain name using a UDP socket.
- Parses the response and outputs the result.
- Sends queries for IP addresses, mail server and name server records.

### Mini Operating System

- Created a program where users can input files and commands and the program will execute them.
- Implemented paging as a memory management scheme.
- Created scheduling algorithm that handles the processes goes to CPU or calls page fault if the process is not in RAM.

### CO-OP-PERATOR - Engineering Co-op Management Software

- Developing a Web application in Java for management of the McGill engineering co-op program.
- Developing data persistence over several runs of the application using a Postgres database.
- Programming the backend based on the MVC design pattern.
- Designing the frontend using Vue.js
- Configuring automated builds using Travis CI.
- Implementing thorough quality assurance with extensive JUnit tests.

### Autonomously Navigable Robot

- Managed a team of five in the design and production of a robot that could autonomously navigate through obstacles.
- Developed the mechanical design of the robot using Lego Mindstorms after meticulous testing using limited resources.
- Using Java, designed, tested and debugged the software algorithm for the robots navigation.