



# MOHAMMED NAFEES

Developer & Opensource Enthusiast

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## EXPERIENCE

### Chapel Parallel Programming Language

LLVM, C++, Chapel

Google Summer of Code Intern

May 2019 – Aug 2019

- Worked on implementing LLVM Intermediate Representation intrinsics for **better machine code memory management** in compiled programs
- Implemented a **more streamlined code generation** when using the LLVM backend and hence decreased dependence on C code substantially
- Improved on the LLVM debug information generation in the form of DWARF v3 debug information by implementing debug intrinsics for **better integration with GDB**

### ecobee, Inc.

Go, Ansible, Terraform, Google Cloud, Kubernetes

Site Reliability Engineer Co-op

Sep 2018 – Apr 2019

- **Pushed production code** to the ecobee SmartThermostat backend infrastructure **responsible for more than 1.3 million connected devices at a time**
- Created the automated server deployment tool written in Go that **reduced server deploy time from a couple of hours to less than an hour**

### McAfee LLC

C#, Docker, Kubernetes, Azure, SQL

Software Development Co-op

Jan 2018 – Apr 2018

- **Built the backend REST APIs for McAfee's new deployment system** for consumer software to handle concurrent requests
- **Created the automated testing framework** with browser automation using Headless Chrome
- Participated in the in-house hackathon called "GEEKapreneur" and **created a chat bot service that prevents cyber crime** using McAfee's extensive database on threats

### Codeorb Inc.

Java, Android

Co-founder and CTO

Aug 2015 – Aug 2016

- Co-founded the B2B startup in high school to **solve common bottlenecks in Android development**
- Worked on the Android client app for developers to **push hot-patches in real-time**
- Acquired more than 20 startups in India as customers and **increased their developer efficiency by more than 30%**

## PROJECTS & OPENSOURCE

### Lerminal | Learn to use the terminal

TypeScript, NodeJS

Lerminal is a cross-platform desktop application for beginners to learn to use a terminal. The app simulates a bash session and gives step-by-step instructions on how to use common commands like cd and ls in a terminal session.

### vm | vim-like Text Editor

C++, ncurses

vm is a terminal editor built using ncurses that supports some basic functionalities as vim.

### KDE's Marble | Opensource Virtual Globe

C++, Qt Framework, CMake

Marble is a free virtual globe that supports maps of the Earth, Moon, Jupiter and other planets as well as historical maps of the Earth.

### MifosX | Opensource Microfinance Software

Java, Spring, Android

Mifos is a non-profit organisation that creates opensource server and mobile software to help the poorer section of society via microfinance.

## SKILLS

### Programming Languages

C++, Go, TypeScript, Java, Python, Chapel

### Frameworks

LLVM, Qt, NodeJS, Spring, Swing

### SRE

Ansible, SaltStack, Terraform, Docker, Kubernetes, Google Cloud, Azure, Zeit

### Platforms

Linux, Windows, macOS, Android

## AWARDS & ACHIEVEMENTS

### Google Code-in

**Winner:** Was **ranked world #1**, in terms of number of programming tasks done, and the youngest in the world to win the contest

**Mentor:** Mentored high-school students and **introduced them to open-source** in the form of programming challenges and documentation contributions

### Google Summer of Code

**Completed all 3 phases** of the programme successfully working for KDE, the German non-profit open source software organisation

### AngelHack HACKcelerator World Finalist

Selected as **one of the top 22 teams** from around the world to pitch their Startup in front of Silicon Valley VCs

### PennApps - Google's 3<sup>rd</sup> Best Android Things Hack

Built an IoT (Android Things) Hack to find study spaces on university campuses using Android Nearby

## EDUCATION

Candidate for the **Bachelor of Computer Science** at the University of Waterloo. Class of 2021.

**President's Scholarship of Distinction**