Anshil Gandhi

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EDUCATION

B.Sc. in Computing Science

University of Alberta

Sept 2017 - April 2021

and Mathematics

Relevant coursework: Compiler Design, Database Management, Operating Systems, Graph theory, GPU programming, Theory of computation, Computer organization and architecture, Algorithms and data structures, Reinforcement learning, Functional and logic programming, Multivariable calculus, Coding theory, Statistics.

EMPLOYMENT

Software Engineer

LLVM Foundation

Aug 2020 - Contd.

Part-time

Fixing bugs in the clang compiler.

Team Lead Canadian Organization of

June 2020 - Contd.

Part-time

Undergraduate Health Research

Leading a team to develop an Android application to collect data from patients.

Software Developer

NexOptic Technology

April 2020 - Aug 2020

Full-time

- ❖ Implemented a Tensorflow based Image Signal Processor.
- ❖ Maintained and developed features for ALIIS[™] on the Android platform in Kotlin.
- ❖ Improved build system for ALIIS[™] by using CMake.

Software Developer

NexOptic Technology

June 2019 - Aug 2019

Full-time

- ❖ Developed an image streaming desktop application using dcraw, Spinnaker SDK, nuklear and OpenGL libraries.
- ❖ Optimized ALIIS[™] to process 720p video and improve frame rate by 50%.
- ❖ Implemented image file converters for PNG, TIFF and DNG.

Student Intern

University of Alberta

July 2016 - Aug 2016

Full-time

- * Refactored a Java reinforcement learning interface.
- ❖ Implemented reinforcement learning environments, including mountain car and the game of 2048.

OPEN SOURCE PROJECTS

betterIR implements out-of-tree LLVM IR passes.	Aug 2020 - contd.
ammoc is an LLVM-based compiler frontend for a Rust-like programming language, written in C++.	June 2020 - Aug 2020
unixFS is a UNIX-based file system, written in C++.	Nov 2019 - Dec 2019
mapReduce is a thread pool library for computing word count, written in C++.	Oct 2019 - Nov 2019
Lianshell is a UNIX-based shell program, written in C++.	Sept 2019 - Oct 2019
EulerTikz is an implementation of a force-based layout graph	Jan 2019
drawing algorithm, written in Python 3.	

AWARDS

Open Kattis ranked 191 out of over 5000 problem solvers across the world HackerRank 6-star gold badge in problem solving

Communitech's Code to Win challenge ranked among the top 75 coders across Canada **RMRC 2019** ranked third place in the ACM's regional programming contest out of 75 teams in the Rocky Mountain region

RMRC 2018 ranked 23rd place in the ACM's regional programming contest out of 65 teams in the Rocky Mountain region

SKILLS

Proficient C/C++; Kotlin; Python; Android development; UNIX; Git

Competent Rust; Java; Lisp; Prolog; Bash; Firebase