

Ishaan Gandhi

[US Citizen]

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EDUCATION

Harvey Mudd College

BS in Computer Science & Math
2017-2021
3.9 GPA

Thomas Jefferson High School for Science and Technology

2013-2017
4.4 GPA

SKILLS

Python, C, C++, OCaml,
Haskell, Java, Go, Swift,
SQL, Bash, Git, Flask, JS,
React, AWS, Kafka, Mongo

COURSEWORK

Systems

Computer Systems
Data Manipulation at Scale
Databases
Operating Systems
Parallel Computing
Programming Languages
Software Verification

Theory

Advanced Algorithms
Algorithms
Algorithmic Game Theory
Artificial Intelligence
Computability & Logic
Deep Learning
Model Theory
Machine Learning

TEST SCORES

ACT: (99.9 percentile)

Math: 36/36
English: 36/36
Reading: 36/36
Science: 36/36

AWARDS

Harvey S. Mudd Scholar
National Merit Scholar
National AP Scholar

05.03.2020

EXPERIENCE

ETH Zürich

Feb 2020 - Pres.

Research Assistant, Advanced Software Technology

- Taking a semester off school to work in the computer science department of the *Swiss Federal Institute of Technology*.
- Currently building coverage-guided fuzzers for SMT solvers and profilers for symbolic executors using C++ and Python.

Facebook

Summer 2019

Software Engineer Intern, Place Visit Detection

- Implemented 2-pass scoring in Facebook's machine learning model for place visit detection, increasing model AUC by 0.74pp.
- Worked on prediction service and training workflow in C++ and Python respectively.

Facebook

Summer 2018

Software Engineer Intern, Real Time Infrastructure

- Increased the security of FB's pub-system by adding cryptographic authentication.

Capital One

Summer 2017

Software Engineer Intern, Commercial Bank

- Worked on full stack development for an IOT sensor network. Built a real-time dashboard and wrote a REST API.

NASA

Jun 2016 – Jun 2017

Student Researcher

- Wrote Monte Carlo simulator to study the performance of various data compression algorithms on space telescopes.
- Sped up image data processing for my research group 600x from Hubble Space Telescope using scripts.

PROJECTS

Shell Notebook

Built a terminal replacement for Mac. Sold to paying users on Mac App Store. Check it out at shellnotebook.com

Symbolic Executor

Hired by Harvey Mudd's CS department to design a project for the *Applied Logic* course. Wrote a symbolic executor for a subset of Python.

iOS App Development

Built and published games and utilities for iPhone and iPad using Objective-C and Swift. Received over 50,000 downloads and made about \$2k in sales.

Golang cross compiler

Wrote a basic cross compiler to turn Python code into Go. Won 1st place and around \$1k in prizes at CU Hacks.

Python Static Analysis Tool

Wrote a static analysis tool to find bugs in Python scripts. Won 1st place and around \$700 in prizes at 5C Hacks.