

# Nikhil Gottipaty

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## EDUCATION

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### Columbia Combined Plan program

May 2023

### Columbia University, The Fu Foundation School of Engineering and Applied Science

*Bachelor of Science – Computer Engineering*

*Relevant Coursework:* Signal and Systems, Advanced Programming, Circuit Analysis, Computer Networks, Operating Systems, Fundamentals of Computer Science, Computer Science Theory, Electronic Circuits, AI, VLSI, Advanced Logic Design, SoC

### Adelphi University

*Bachelor of Science - Computer Science*

*Relevant Coursework:* Discrete Mathematics, Data Structures, Operating Systems Practicum, Software Engineering, Survey of Programming Languages, Mathematical Methods in Physics

## SKILLS

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*Computer:* Proficient in Python, C, Java, MySQL, R, MATLAB, Cadence, SystemC, LabVIEW, Verilog, VHDL,

MySQL, C++, Perl, UNIX, Machine Learning

*Design:* LTSpice, Cadence Virtuoso, Vivado, Xilinx

## RELEVANT EXPERIENCE

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### Adelphi University

June 2022 - August 2022

*Research Assistant*

- Created a software in Python to read in information from a diode laser in real time, converted the information into human readable form, and monitored and maintained the temperature and current of the laser.
- Soldered ADC's and DAC's for the Raspberry pi to communicate with the laser.

## PROJECTS

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### RIT Hackathon

February 2020

- Used Java to design the backend of the calculator part of an app, resulting in the app being able to calculate blood alcohol level and advise people on the effects of alcohol

### Sudoku Solver

October 2022

- Created a program in python that solved sudoku puzzles using the A\* algorithm

### Sign Language Recognizer

November 2022

- Created a program in python and using Panda NLP to recognize sign language from images with a 95% accuracy

### Kinematics Calculator

March 2021 - May 2021

- Backend design for a calculator that had the ability to solve and display projectile motion problems using Java
- Created code to handle kinematics formulas with and without air drag

### Travel Planner

August 2019

- Designed a program using Python to take in information from the user and display the given information in an organized manner
- Integrated a database created in MySQL to store and manage the inserted information

## ACTIVITIES

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- Member of ACM (Computer Science)
- Team leader of a multi month camping expedition:
  - Learned how to work with and lead a variety of personalities
  - Improved organizational skills by planning food delegation and camping spots weeks in advance