

AARUSH GUPTA

Computer Science

Personal Info

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GitHub

<https://github.com/aarushg>

EDUCATION:

*Penn State
University
BS in Computer
Science*

Class of 2018

Minor in

**Entrepreneurship and
Innovation**

~President of Student
Government

~Director of Systems for
CCSG

Skills/Tools

BASH

Django/Flask

SQL

Python

JavaScript

HTML/ CSS

Linux/Windows/OSX

C/C++

VMWARE/VirtualBox

Jupyter Notebook

Objective: I will like to innovate and develop new tools to be used by non-technical people to help the masses.

EXPERIENCE:

LEARNING ASSISTANT, PSU

2017 SEP – PRESENT

Data structures and Algorithms – Running time; Python Data Structures: Hash Table, Linked List and Arrays

Artificial Intelligence - Used Python to auto grade students work; Wrote scripts using Python; Transferred scores from Python to Excel/CSV document to keep tabs on students' progress in class

API DEVELOPER, FEDEX EXPRESS

2017 AUG – 2018 AUG

Developed a location-based Android application using Android SDK and rest API to track Employee and trucks.

Student Mentor and Tutor, CCAC

2016 Summer

Mentored students with computer software and development. Also taught math and science to struggling student.

ROBOTICS INSTRUCTOR, WESTERN PENNSYLVANIA SUMMER STEM

ACADEMY

2016 JUNE – 2016 JULY

Assisted in teaching robotics and computer programming to high schooler's using VEX. Developed using C# derivative, VEX's own tool.

DATABASE MANAGER, INDIANA UNIVERSITY OF PENNSYLVANIA

2013 JUNE – 2014 JUNE

Student database organizer for foreign exchange students at the Business Department of IUP, using SQL. Normalized the database based on organization need.

IT TEAM LEAD, FOX CHAPEL AREA HIGH SCHOOL

2013 JUNE – 2014 JUNE

Set up Windows/OSX/Linux Systems. Troubleshooted systems with installing and maintaining system applications. Set up computer systems on a school network. Set up network printing using a centralized system management tool. Set up student lab computers and installed applications (Office tools, CAD and 3D printer) and OS on systems.

Projects

Cracker

2017 JANUARY - 2017 MAY

Developed a line waiting app using Django and SQL

C Device Driver

2016 AUGUST – 2016 DECEMBER

Simulated a device driver for Unix file system using C language. Developed a virtual application using VMWARE tools.

Operating System Concepts

2016 AUGUST – 2016 DECEMBER

Worked on a simulated operating system in C. Applied CPU/Memory Virtualization, Threading, Concurrency, IO and basic file system to make a simulated operating system.