

# SHUBHAM GOYAL

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## EDUCATION

PENNSYLVANIA STATE UNIVERSITY  
B.S. COMPUTER SCIENCE  
MINOR: MATHEMATICS  
GPA: 3.12 (MAJOR: 3.64)  
CLASS OF 2019

## LANGUAGES & SKILLS

**5000 + LINES:** C, Python

**1000 + LINES:** C++, Java

**500 + LINES:** HTML + CSS

**TOOLS:** Android Studio, Docker,  
MongoDB + JSON

**NATIVE FLUENCY:** ENGLISH, HINDI  
**WORKING FLUENCY:** FRENCH

## COURSEWORK

Operating Systems, Data Structures  
& Algorithms, Computer & Network  
Security, Communication Networks,  
Technical Communication, Computer  
Organization & Design, Software  
Design Methodology, Security & Risk  
Analysis, Systems Programming

## REFERENCES

Available upon request

## WORK EXPERIENCE

### QATAR COMPUTING RESEARCH INSTITUTE – RESEARCH INTERN

MAY 2018 – JULY 2018

Researched squatting domains with the cyber security team and developed several python programs to identify the top 1 million Alexa domains, gather their metadata, and sort them into specific dedicated Mongo collections. Used cronjobs to run the programs daily and wrote an algorithm to monitor and examine the health of the domains. Presented the back-end information to the user using a REST API to query the data, with a user friendly front-end design.

### WAVENET SOLUTIONS – ANDROID DEV INTERN

MAY 2017 – JULY 2017

Built an app-based solution for operating Philips HUE lighting with the Android division. Product implemented various APIs and libraries for efficiency that requires minimal device resources. App extracts dominant as well as vibrant and muted colors from video frames twice a second to provide ambient lighting.

### SHELL UKEP – CONTROL SYSTEMS IT INTERN

MAY 2017 – JULY 2017

Collaborated with the CS-IT team to gain current knowledge about network security in the process industry. Scripted in VBScript to perform event log collection by self-elevation of user privileges as well as dynamically-changing save location of the event logs in offshore machines. Communicated directly with vendors to resolve unresponsive-equipment related issues.

### PENNSYLVANIA STATE UNIVERSITY – LEARNING ASSISTANT

JULY 2018 - PRESENT

### PENNSYLVANIA STATE UNIVERSITY – GRADER

JANUARY 2018 – JULY 2018

### PENNSYLVANIA STATE UNIVERSITY – RESIDENT ASSISTANT

AUGUST 2017 – PRESENT

## PROJECTS

- DOMAIN MONITORING TOOL (PYTHON)
- COLOR EXTRACTION APP (ANDROID)
- FLIGHT SCHEDULER DMS (JAVA & DERBY DB)
- 2D DRAWING APPLET (JAVA)
- FILE CRUD DRIVER SYSTEM (C)
- WEB SERVER & PROXY SERVER (PYTHON)
- UDP PINGER SERVER/CLIENT (PYTHON)