

# SHUBHAM GOYAL

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🌐 [GOYALSHUBHAM.COM](https://GOYALSHUBHAM.COM)

## EDUCATION

### THE PENNSYLVANIA STATE UNIVERSITY

B.S. COMPUTER SCIENCE

Minor: MATHEMATICS

GPA: 3.13 (Major GPA: 3.68)

Expected Graduation: MAY 2019

## LANGUAGES & SKILLS



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

## RELEVANT COURSEWORK

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

## AWARDS & ORGANIZATIONS

Dean's List: FALL 2017

Member of PSU Chapter of ACM

## 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 2016 – JULY 2016

- 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

JANUARY 2018 - PRESENT

### PENNSYLVANIA STATE UNIVERSITY – RESIDENT ASSISTANT

AUGUST 2017 – PRESENT

## PROJECTS

- [DOMAIN MONITORING TOOL](#) (PYTHON)
- [COLOR EXTRACTION APP](#) (ANDROID)
- [FLIGHT SCHEDULER DMS](#) (JAVA & DERBY DB)
- GENERAL MOTORS – GUI FOR FLEXIBLE ANDON & PROCESS MONITORING CONFIGURATION (JAVA & VBA)
- [2D DRAWING APPLETT](#) (JAVA)
- [FILE CRUD DRIVER SYSTEM](#) (C)
- [WEB SERVER](#) & [PROXY SERVER](#) (PYTHON)