

# Abdullah Shareef

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## Education

### Rutgers University - Honors College

*New Brunswick, NJ*

B.S. IN COMPUTER SCIENCE AND MATH | GPA 4.0/4.0

*Sept. 2016 - PRESENT*

- Relevant Courses: Data Structures, Computer Architecture, Systems Programming, A.I., Smart Cities
- Extracurriculars: USACS Event Coordinator, HackRU Finance Organizer

## Experience

### Emerge Technologies

*New York, NY*

SOFTWARE ENGINEER

*June 2017 - PRESENT*

- Designed and built the Django web app for an Ed-Tech Startup to allow educators to search for educational resources
- Implemented a file search engine algorithms for crawling, indexing, ranking, and querying using MySQL RDBMS

### Robot Automation Research

*Piscataway, NJ*

RESEARCH ASSISTANT

*July 2017 - PRESENT*

- Developed software for pipeline inspection robots including tele-operational and autonomous functionality
- Implemented spatial mapping and pathing algorithms using the robot operating system (ROS)

### Mars Tech Solutions

*Edison, NJ*

SOFTWARE ENGINEERING INTERN

*June 2016 - Aug. 2016*

- Built websites for clients using Node.js, HTML5, CSS, Bootstrap, MySQL
- Developed cross-platform app using Ionic Framework, added push and email notifications

## Projects

### Terra

PENNAAPS TOP 30/158 HACKS

*Sept. 2017*

- Developed a Peer-to-Peer communication system to allow sensors to transmit data in areas with no internet
- Designed a messaging algorithm based off of depth first search to relay messages along a mesh of Android devices
- Technologies Used: Android Things IoT Platform, Java, Django, iOS, Firebase

### Robota

TECHCRUNCH DISRUPT FEATURE HACK

*May 2017*

- Created a robot teaching assistant by coding a robot using ROS in Python in order to help in special needs classrooms
- Trained a model to classify images of sad students with Clarifai and integrated IBM Watson to interpret oral responses

### SmileMore

PERSONAL PROJECT

*Sept. 2016*

- Built a desktop app to watch a user and if they don't smile for an extended amount of time it triggers an alert to smile
- Used Python along with OpenCV's machine learning libraries for face and smile recognition and Tkinter for the GUI

### Link

BUILT AT HACKIDT

*April 2017*

- Developed an app for businesses to allow clients to make appointments with SMS to ease an owners workload
- Used Twilio Texting API, a Python Flask server to get and parse the SMS and JQuery to edit the owner's calendar

## Skills

Languages	Python, Java, C, C++, Javascript, HTML/CSS, MySQL, Bash
Frameworks	Django, Flask, OpenCV, ReactJS, JQuery, Tkinter
Tools	Git, Shell, Vim, Docker, AWS, Linux - Debian