

# Abdullah Shareef

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## Education

### Rutgers University - New Brunswick

New Brunswick, NJ

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

Sept. 2016 - PRESENT

- Relevant Courses: Computer Architecture, Systems, A.I., Smart Cities Seminar(Graduate)
- Extracirriculars: USACS Exec-Board Member, HackRU Organizing Team Member

## Experience

### Emerge Technologies

New York, NY

LEAD SOFTWARE ENGINEER

June. 2017 - PRESENT

- Designed and built the core software for an Ed-Tech Startup based out of the Blackstone LaunchPad at NYU
- Built web app with Django to allow educators to search for educational resources (Videos, Worksheets, Lessons, etc.)
- Implemented a file search engine algorithms for crawling, indexing ranking and querying
- Designed and implemented relational databases utilizing the MySQL RDBMS

### Undergraduate Research in Automation

Piscataway, NJ

ARESTY 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

PENN APPS 16 TOP 10 HACKS

- Developed a Peer to Peer communication system to allow sensor operation and data transmission in areas with limited internet
- Designed a messaging algorithm based off of depth first graph traversal to relay messages along a mesh of Android Things devices
- Technologies Used: Android Things IoT Platform, Java, Django (Server-side Lang.), iOS (Companion App to receive data), Firebase

### Robata

TECHCRUNCH DISRUPT FEATURE HACK

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

### SmileMore

PERSONAL PROJECT

- Implemented face and smile recognition algorithms using the OpenCV machine learning libraries in Python to encourage more smiling

### Link

BUILT AT HACKIDT

- Developed an SMS based scheduling system using the Twilio Texting API and a Python Flask server with jQuery

## Skills

LANGUAGES

- Python, Java, C, C++, Javascript, HTML/CSS, MySQL

FRAMEWORKS & LIBRARIES

- Django, Flask, OpenCV, Android, ReactJS