




# Kaushal Parikh

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## EDUCATION

### Rutgers University - Honors Engineering Academy

*Bachelor of Engineering, Electrical and Computer Engineering*

*Bachelor of Science, Computer Science*

*Minor: Mathematics*

New Brunswick, NJ

Expected Graduation: May 2020

### Relevant Coursework

- Computer Science: Software Engineering, Design and Analysis of Computer Algorithms, Software Methodology, Computer and Data Architecture, Data Structures
- Electrical and Computer Engineering: Digital Electronics, Computer Systems, Electronic Devices, Linear Systems and Signals, Digital Logic Design, Principles of Electrical Engineering, Wireless Revolution, MATLAB Programming
- Mathematics: Linear Optimization, Linear Algebra, Differential Equations, Probability and Random Processes, Discrete Structures

### Awards

- Dean's List [Fall 2016 - Fall 2018], Rutgers Scarlet Scholarship [Merit-Based]

## PROFESSIONAL EXPERIENCE

### Prudential Financial - Global Business and Technology Solutions

*Summer Technology Analyst*

Roseland, NJ

June 2018 - August 2018

- Converted Puppet manifests to Ansible playbooks, which are fed into a Jenkins Pipeline and orchestrated by Packer to create a Windows AMI
- Wrote Python scripts that utilized the AWS Boto3 SDK to configure certain infrastructure settings, such as CloudTrails, EC2 Instances, volume encryption, as well as validate changes and deployments to Prudential-managed accounts
- Automated the creation of AWS accounts with Python scripts that implemented specific AWS infrastructures via tags-value pairs, user permissions, and other EC2 configurations
- Worked in an Agile Framework in the Cloud Operations and Platform Engineering Divisions

## SELECTED PROJECTS

### Augmented Reality @ WINLAB, Rutgers University

May 2017 - Aug 2017

- Worked with 3 Rutgers master's students to create two applications: a "Smart-Office" application which displays real-time information of smart devices in a building to the HoloLens wearer as a holographic projection and a "WINLAB Navigation" application that directs anyone unfamiliar with the layout of WINLAB between common locations
- Extricated video stream from HoloLens camera using Windows SDK tools and Windows AR Kit
- Implemented fiducial marker detection on video-feed that returned the corresponding marker identification value, which was stored in a MySQL database, located on a Linux server
- Wrote Javascript scripts in Unity to create Holograms that would display pertinent application information to the user on the HoloLens display
- More information can be found at <https://kparikh9.wixsite.com/hololens>

### Light Saver

Sept 2016 - Dec 2016

- A smart, energy-saving light system, which detects both artificial and natural light through a photon-sensor and emits appropriate voltage to an LED strip that maintains a constant level of light in the room.
- Materials included a Sparkfun® Arduino, a portable cell phone charger, a 9 Volt battery, and a kitchen cabinet LED strip.

## SKILLS

- Programming Languages: Java, C, Swift
  - Experience with Python, IA32 (x86) Assembly Language, Node.js (Express), Twilio (Twiml)
- Miscellaneous: Agile, MATLAB, Maple, Mathematica, Microsoft Powershell, OpenCV, TensorFlow, Ansible Playbooks, Jenkins Pipeline, Android Programming, Git (GitHub and Bitbucket)

## INVOLVEMENT

- Rutgers University Competitive Programming - Club Team
- Rutgers Engineering Honors Council - Treasurer
- Independent Coursework: MongoDB University ~ M001: MongoDB Basics, M101P: MongoDB for Developers, M103: Basic Cluster Administration