David Awad

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Education

- **Bachelors of Science, Computer Science and Physics – Rutgers University – May 2016**
- **Nanodegree, Self Driving Car Engineering – Udacity – August 2017**

Experience

- **Co-Founder and CTO**   **New Brunswick**
  Archangel Raphael's Mission   *May 2016 –*
    - Technical lead, orchestrating digital strategy, embracing best engineering practices in our open source and internal projects.
    - Responsible for creating a positive culture for our small team of developers and managing projects as we build our online platform and internal tools primarily in Python.

- **Software Release Engineer**   **New York City**
  Tumblr   *May 2016 – November 2016*
    - Built internal deploy processes, build tools, source control wrappers, deploy reporting, statistics, and internal build group productivity tools.
    - Experience with containerized services and deployments on Apache Mesos, using Docker and Python.

- **Hackathon Coach**   **New York City**
  Major League Hacking   *November 2015 – November 2016*
    - Traveled internationally to college student hackathons and provided both technical and nontechnical presentations to better the student hacking community.
    - Assisted engineering students with rapidly prototyping their ideas and troubleshooting all kinds of different software and hardware projects along with other engineers and developers from other companies across industry.

- **Codecademy Advisor**   **New York city**
  Codecademy   *September 2015 – May 2016*
    - Provided guidance and support for students first learning to code through by helping them by work through potential errors in code as well as teaching anything from basic programming to computer science and data structures.
    - Tracked issues and worked with product team for consistent improvement of product based on user feedback.

Skills

- **Programming / Scripting Languages:** *Python, C, JavaScript, Java, Shell*
- **Frameworks / Libraries:** *Flask, Foundation / Bootstrap, jQuery, ReactJS, Android, AngularJS, Stripe, Express, Casper, Arduino*
- **Database Systems:** *Redis, etcd, MongoDB, MySQL*
- **Infrastructure Tools:** *Jenkins, Travis-CI, Docker, Puppet, Heroku, NGINX, Vagrant, AWS*

Personal Projects

- **lane detection** - *https://github.com/davidawad/lane-detection*
  - *identifies lane lines given an image still from a typical asphalt road. The algorithm uses Canny Edge Detection. Then finds all of the edges in the image based on color pixel value numerical gradients, it then converts these high contrast points to identify lines using Hough Transforms; and then uses linear regression to extrapolate and mark single lane lines on a road.*
- **vcluster** - *https://github.com/davidawad/vcluster*
  - *Command line tool for rapid virtual machine provisioning on beefy machines.*
  - *leverages Vagrant to create a cluster of Virtual Machines from the command line running different operating systems based on a YAML config; enabling unit testing for multiple platforms from the command line.*
  - *Written as a part of PennApps Spring 2016.*
- **blocky** - *https://github.com/davidawad/blocky*
  - *Brings bitcoin wallet QR code to android system UI.*
  - *Android plugin for devices running CyanogenMod to add a custom tile to the quick settings UI. Uses the Blockchain API to create a QR code for any Bitcoin Public Key that you provide. This enables faster wallet access for payments.*
  - *Received the Cyanogenmod Prize for best use of the Android SDK at Hack the Planet.*

Awards and Extra Curricular Activities

Hackathon Experience   **Major League Hacking**
- *Various Prizes,*
  Second Place Overall HackNJIT '14, Third Place Overall HackRU '13, IBM Bluemix Prize HackNY '15, Cyanogen-Mod Prize HackThePlanet '15
  LSAMP Scholar
- *Scholarship Recipient,*

  TA Experience
- *Teaching Assistantship,*
  PSY 90 introductory Positive Psychology course Course on happiness for first year students.
  Student Organizer
- *Rutgers University Student Alliance of Computer Scientists,*
  Delivering various talks to the Rutgers community, leading study groups, intra club collaborative events, and Director of logistics for HackRU.
  Lead App Developer
- *Robert Wood Johnson, Pro Bono lead developer*
  I worked pro bono as the lead developer on a Python Django application that improved service and organization for attending doctors at the Promise Clinic which provides free healthcare to the residents of New Brunswick.
  Public Relations Manager, Web Designer and Developer
- *Rutgers University Judo Club,*
  Managed the architecture, data, design, website, and social media of the Rutgers Judo Club.
  Technological Coordinator
- *Rutgers University Glee Club, Responsible for maintaining our data.*
  Such as the website, IT support and Data Management, Email Lists, etc.