

# David Awad

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[github.com/davidawad](https://github.com/davidawad)

## Education

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

## Experience

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- **Software Release Engineer** **New York City**  
◦ [Tumblr](#) May 2016 – November 2016  
I developed and maintained Tumblr internal deploy processes, developer build tools, source control wrappers, deploy reporting and statistics, and internal build group productivity tools. I developed web based tools to report on build, branch, and project status for use by developers and product managers throughout the company. 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  
I traveled internationally to college student hackathons as a representative of Major League Hacking. Worked with a small team and provided both technical and nontechnical presentations at events to promote brand recognition and good outward facing public relations. I 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 the Codecademy platform 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.
- **Infrastructure Engineering Intern** **Atlanta**  
◦ [MailChimp](#) May 2015 – August 2015  
Responsible for improving and building internal tools to keep track of all of our production hardware. Writing a rest API to automate the provisioning and deployment our production datacenter servers. Extensive monitoring of all server traffic, and load balancing as they grew to receive over 6,000 requests per second. In addition I was using performance monitoring and performed data research on the size vs. query speed to improve efficiency by at least 6% on our dedicated database servers for paid users.

## Skills

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- **Programming / Scripting Languages:** Python, C, JavaScript, Java, Shell
- **Markup Languages:** HTML5, CSS3, SASS/SCSS, Markdown, LaTeX, XML, HAML, Jade
- **Frameworks / Libraries:** Flask, Foundation / Bootstrap, jQuery, React.JS, Android, Angular.JS, Stripe, Express, Casper, Arduino
- **Database Systems:** Redis, etcd, MongoDB, MySQL
- **Infrastructure Tools:** Jenkins, Travis-CI, Docker, Puppet, Heroku, NGINX, Vagrant, AWS

- **Graphics Tools:** Unity, Blender, GIMP, Inkscape
- **Coursework:** Quantum Mechanics, Quantum Computing, Artificial Intelligence, Algorithms, Operating Systems Design, Systems Programming, Computer Architecture, Electricity and Magnetism, Internet Protocols, Solid State Physics, Database Management Systems, Astrophysics, Discrete Mathematics, Discrete Probability, Data Structures, Web Design.

## Personal Projects.....

- **lane detection** This is a small project that identifies lane lines given an image still from a typical asphalt road. The algorithm uses Canny Edge Detection, to find 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** vcluster leverages the power of Vagrant to create a cluster of Virtual Machines from the command line running different operating systems that you can specify using YAML; this allows you to unittest for multiple platforms from a convenient CLI.
- **blocky** Blocky is a small, well polished android plugin for devices running CyanogenMod to add a custom tile to the quick settings UI. It uses the Blockchain API to create a QR code for any Bitcoin Public Key that you provide. This enables quick ease of use and convenience to accept payments on your mobile phone, while also solving the problem of having your Bitcoin wallet exclusively on your phone. This project won the Cyanogen Prize at HackThePlanet in 2015.
- **I have over 100 Free and Open Source Software Projects available on GitHub.**

## 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, CyanogenMod Prize HackThePlanet '15

### Co-Founder

- Archangel Raphael's Mission, Technical Lead  
Serving as technical lead of **ARM**, a small New Brunswick charity dedicated to creating community based outcome driven initiatives for the homeless population in Central New Jersey.

### LSAMP Scholar

- Scholarship Recipient,

### TA Experience

- Teaching Assistantship,  
PSY 90 introductory Positive Psychology course Course on happiness for first year students.

### 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.

### Hackathon Organizer

- Rutgers University Student Alliance of Computer Scientists, A member of the team responsible for all organizational aspects of planning the Bi-Annual Hackathon, HackRU.