

# David Awad

Edison, NJ, 08817

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## Education

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- **Master of Science, Computer Science** – Georgia Institute of Technology – May 2020
- **Bachelor of Science, Physics and Computer Science** – Rutgers University – May 2016
- **Nanodegree, Self-Driving Car Engineering** – Udacity – August 2017

## Experience

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- **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 Engineer** **Somerset**  
○ *CSF Corporation* *April 2017 –*
  - Building features and designs for product, and internal tools reporting directly to the CTO.
  - Using primarily HTML5, CSS, JS, jQuery, Shell, Java, and C.
- **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.

## Skills

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

## Certifications

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- Notary Public, New Jersey, August 2, 2017 to August, 2, 2022.

## Personal Projects

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- **Sloan** - [https://github.com/davidawad/TISLA\\_FAQ](https://github.com/davidawad/TISLA_FAQ)
  - The worlds first student loan advice chatbot. Monitors the TISLA facebook page and provides free advice and guidance to student loan borrowers looking to make a change.
  - Uses Python Flask, processes messages using cosine distance and returns them with the Facebook Messenger Bots API.
- **StateDB** - <https://github.com/davidawad/statedb>
  - Designed throttled custom scrapers to create the first JSON formatted database of U.S. state laws.
  - Dataset created by a web scraper that parsed through over 20,000 lines of different laws from different states and compiled into the first dataset of it's kind.
  - Featured project of the Tech4Justice initiative.
- **lane detection** - <https://github.com/davidawad/lane-detection>
  - Identifies and highlights 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.

## 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.