David Awad

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Bachelors of Science in both Computer Science and Physics May, 2016

Experience

Developer Evangelist   **Denver, Colorado**
SendGrid   *October 2015 –*

I travel across the country as a representative of SendGrid's engineering team. There was a strong focus on establishing good outward facing public relations for SendGrid as well as preparing both technical and nontechnical presentations on SendGrid's technology and working both on open source and with client company developers and engineers using SendGrid's technology for implementing and prototyping ideas, and applications at various developer conferences, hackathons, and events.

Engineering Mentor   **Manhattan, New York**
Codecademy   *September 2015 –*

I currently work part time as a consultant to assist those learning to code for the first time online through Codecademy by helping them by work through potential errors in code as well as teaching anything from basic programming concepts to computer science and programming language specifics such as Python, Ruby and JavaScript.

Infrastructure Engineer   **Atlanta, Georgia**
MailChimp   *May 2015 – August 2015*

I was given the task of improving and building internal tools to keep track of all of our production hardware and a rest API to automate the provisioning and deployment our production datacenter servers as well as Extensive monitoring of all server traffic, and load balancing as they currently 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.

Software Engineering Consultant   **Atlanta, Georgia**
United States Center for Disease Control and Prevention. *June 2015 – July 2015*

I assisted in drafting an entirely new REST API to replace the SOAP API for the CDC's open health data.

Software Engineer   **Princeton, New Jersey**
Addteq Inc.   *December 2014 – May 2015*

I was responsible for completely redesigning and rebuilding our career portal from scratch using AngularJS and jQuery. Writing various unit tests to run on our production servers that will ensure performance on our commercial software.

Skills

Technical Skills

- **Programming / Scripting Languages:** *Python, C, JavaScript, Java, Bash, MATLAB, Scheme*
- **Markup Languages:** *HTML5, CSS3, SASS/SCSS, Markdown, LaTeX, HAML, Jade, XML*
- **Frameworks / Libraries:** *Flask, Foundation / Bootstrap, jQuery, React, Android, Angular, Node, Stripe, Express, Casper, Arduino*
- **Database Systems:** *MongoDB, PostgreSQL, MySQL, Redis*
- **Infrastructure Tools:** *Travis-CI, Vagrant, Puppet, Docker, Stash, Jenkins*

- **Coursework:** *Quantum Computing, Artificial Intelligence, Algorithms, Graduate Operating Systems Design, Systems Programming, Computer Architecture, Principles of Programming Languages, Database Management Systems, Discrete Mathematics and Discrete Probability, Data Structures, Advanced Web Design*

Personal Projects

- **Insightweets** *Insightweets is an app meant to gather insights about specific kinds of people in any geographic location using Twitter and machine learning. It queries Twitter for location based data and then processes it using machine learning. Built using NodeJS, Express, Jade, LESS, and the Twitter API. This project won the IBM Bluemix prize at HackNY in 2015.*

- **vcluster** *vcluster leverages the convenience of Vagrant to create a cluster of Virtual Machines from the command line that are all running different operating systems that you can specify using vagrant; this allows you to unittest for multiple platforms from a convenient CLI and a simple YAML file.*

- **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

- **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, Manage and Improve the representation 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.

- **Founding Member**
  Rutgers University Security of Information Club, specializing in cyber security for embedded systems.

Research

- I currently study research under professor Abdelslam Boularias doing research in computer vision. We have been working towards using the leap motion and various machine learning techniques to create robots that can assist and replicate the movements of the the human hands.