

**Timothy Miller**

**Web Developer**

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**Code for America, OpenOakland Brigade – Oakland, CA**

*Full Stack Contributor*

4/2018 – Present

- Built web application for citizen scientist group w/ React, Django Rest Framework, & PostGIS tech stack
- Designed & implemented geospatial features that allowed users to track air quality by time & location

**United States Air Force (821st CRS) – Travis Air Force Base, CA**

*Squadron Tactics Adviser*

9/2018 – Present

- Outlined validation plan for \$750K geo-spatial Artificial Intelligence program grant
- Developed Slack applications that pull API data, to increase squadron productivity
- Led implementation of Slack and onboarded 170 members to improve squadron communications, presenting productivity benefits and data risks to leadership and effectively persuading to roll out
- **Tools:** Express.js (for Node), MongoDB, Docker, OAuth 2.0, and AWS Elastic Beanstalk

*Landing Zone Safety Officer*

9/2016 – Present

- Employed iterative design principles to prototype, test, and ultimately develop 3D printed adapters that increased our tactical airfield light's battery life by 37 hours
- Coordinated relief support for 3 hurricane efforts, delivering 514 tons of aid to 73,000 people
- Presented at the Airlift/Tanker Association conference to audience of 1500 on benefits of adapter and proposed methods to scale production, reduce costs, and save lives

*Air Traffic Controller*

9/2014 – 8/2016

- Ensured the safe and efficient movement of aircraft, complying with FAA and USAF regulations

**Phoenix Spark – Travis Air Force Base, CA**

*Web Developer & Project Manager*

6/2018 – 6/2019

- Developed an online web presence for a newly launched Innovation Hacker Space
- Wrote wiki that taught Airmen the basics of web development
- Ensured compliance with Section 508, ADA, and mobile best practices
- **Tools:** Jekyll for Ruby, code.mil repository, Travis CI, GitHub Pages, Google Analytics and Forms

**Binghamton University Innovation and Entrepreneurship Club**

*Founder & Grant Recipient*

9/2012 – 5/2013

- Launched the 'Entrepreneurial Academy' instilling 60 middle schoolers with an innovation mindset
- Recruited 6 volunteers to lead classes and trainings on a weekly basis during our 5-week pilot program
- Awarded a \$2,500 grant to explore the commercial viability of turning food waste to fuel at scale

**Northwestern University**

*Undergraduate Research Assistant*

7/2011 – 8/2011

- Analyzed student progress, converting qualitative results into quantitative data, enabling educators to measure the impact of their lectures
- Coauthored paper published in the Proceedings of the American Society for Engineering Education

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**Binghamton University, Binghamton, NY – B.S. Bioengineering, 2013**

**Community College of the Air Force, A.A.S., Air Traffic Control Management, 2016**

**Awards:** Airman Leadership School, Academic Achievement award (Jun. 2017), Air Traffic Control Technical School, Top Graduate (Sep. 2014)

**Tools:** Express, Node, PostgreSQL, Django, Python, Jest, React, JavaScript, Docker, CircleCI, Jekyll, AWS, Git, MongoDB, Docker, RESTful - JSON API, R, HTML, CSS3, jQuery