

# YASH TULSIANI

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## CONTACT



ytulsiani.com



in ytulsiani

ytulsiani

## SKILLS

**Languages:** Python, Bash, Java, Go, Javascript, C, Assembly, SQL

**Technologies:** Cloud Foundry, Concourse CI, AWS, Chef, GCP, Heroku, Pivotal Tracker, Jira

**Frameworks and Libraries:** NodeJS, OpenCV, Terraform

**Concepts:** Agile, Continuous Integration, Automated Testing, Test Driven Development, Pair Programming, Platform as a Service, Infrastructure as Code, Cloud Native/12 Factor

## ACTIVITIES

### College of Computing Tutor

Tutor for students taking Computer Science courses at Georgia Tech including Data Structures and Algorithms, Object Oriented Programming, and Systems Programming.

### Georgia Tech Communications

Created content for Georgia Tech's social media platforms including their official Facebook, Instagram, Twitter, and Snapchat. Content included photos, videos, graphics, and articles that Georgia Tech used to promote campus life.

### GreyHat Infosec

Used tools like Metasploit and Wireshark to see how penetration testing is done in the field by deploying vulnerable Linux VMs on my system.

### Vibha · President

Helped start a Georgia Tech chapter for an organization raising funding and awareness for education for children in developing countries. Led club of 15 volunteers to host multiple successful awareness events and campaigns that raised thousands of dollars.

### Tech The Halls · Vice President of Marketing

Worked in executive board for an organization promoting inner-city education through connections. Responsible for finding innovative ways to increase mentor, student, and corporate sponsor awareness. Developed website for the club on bootstrap located at [techthehalls.gtorg.gatech.edu](http://techthehalls.gtorg.gatech.edu).

### FouroFour Co · Visual Artist

Worked in creating visual content for local Atlanta brands to market their company and products.

### Atlanta Humane Society

Volunteered at a humane society in dog rehabilitation and adoption center. Took photos of the adoptions animals and managed their website with new animals.

## EDUCATION

Georgia Institute of Technology

B.S. Computer Science

August 2015 - May 2019

High Honors, Dean's List, GPA: 3.27

Tutor for the College of Computing

## EMPLOYMENT

### VMware

Member of Technical Staff II

San Francisco, CA

Aug. 2019

- Merged from Pivotal Software
- Working on **Site Reliability Engineering** tasks relating to automation and tooling development for Pivotal Web Services
- Automating certificate rotations** on the platform with **test driven development** and pair programming in Ruby (every component talks over TLS so there are hundreds of certs on the platform)
- Building **CI/CD pipelines** to automate zero downtime upgrades to the platform
- Running alpha versions of Cloud Foundry (PaaS) at scale (over 1,000 Application Instances) for shorter downstream feedback cycles and performance testing
- Testing early development of Cloud Foundry on **Kubernetes** for performance issues

### Software Engineering Intern

San Francisco, CA

May 2018 to Aug. 2018

- Worked on a release integration system supporting open source Cloud Foundry (my work is publicly available on GitHub)
- Improved the reliability of Cloud Foundry's flakiest tests in **Go**
- Created CI pipelines to improve the agility of component teams deploying on the platform

### Mailchimp

Software Engineering Intern

Atlanta, GA

Aug. 2018 to Dec. 2018

- Worked on an internal **data center management** tool to support production applications
- Migrated RPC system from Apache Thrift to **gRPC** and integrated it into a **Django Python** app

### Ultimate Software

Software Engineering Intern

Weston, FL

May 2017 to Aug. 2017

- Worked in a devops role for Platform as a Service team supporting Pivotal Cloud Foundry
- Developed pipelines for continuous integration and automation for tasks such as SQL auto-recovery and backup on critical user data
- Migrated Chef deployments to Bosh with **Ruby** and **Python** to speed up deployment time for development teams

### Home Depot

Software Engineering Intern

Atlanta, GA

May 2016 to Aug. 2016

- Developed Proof of Concept allowing for the development of an integrated backend over multiple store fronts with **Javascript** and **Angular** to allow Home Depot to have a single interface for multiple store fronts

### PhD Founders

Founder

Schaumburg, IL

Sept. 2014 to Feb. 2017

- Started a tutoring company to provide low cost tutoring to over 30 students ranging from first grade to college
- Managed 3 employees and developed a sustainable business plan

## PROJECTS

### My Angel Sight

Built a tool that analyzes if a driver is distracted while on the road. Used OpenCV to detect a person along with a convolution neural network to analyze their facial features. Hosted using Google Cloud Functions. **1st place winner and sponsor prize winner at HackAubrun 2019**. Project details at [myangelsight.com](http://myangelsight.com).

### Computer Science Creativity

Wrote a Medium article discussing the benefits of having a creative hobby in computer science. The article was featured on multiple tech news sites and blogs, including the **front page of Hacker News**. The article is published at [bit.ly/csCreativity](http://bit.ly/csCreativity).

### Undergraduate Research: iTrans

Implemented machine learning algorithms in **Python** connected to a MySQL database to predict bus arrival and departures for Georgia Tech's busing system. These algorithms will be used to provide accurate readings for the campus busing arrival estimator API.

### Audio AD

Developed **Unity application** as a proof of concept for an audio centric software and hardware suite to help filmmakers focus on their work without having to micromanage their crew. Details on the project, including demo videos are available at [github.com/ytulsiani/Audio-AD](http://github.com/ytulsiani/Audio-AD).