

YASH TULSIANI

CONTACT

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SKILLS

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

Technologies: Kubernetes, Cloud Foundry, Terraform, AWS, GCP, Datadog, Wavefront, Concourse CI, Heroku, Pivotal Tracker, Jira

Frameworks and Libraries: Ruby on Rails, Django, NodeJS, OpenCV

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

CERTIFICATIONS

Kubernetes Certified Application Developer
Apr. 2020

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.

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

High Honors, Dean's List, GPA: 3.27

Tutor for the College of Computing

Aug. 2015 to May 2019

EMPLOYMENT

VMware

Member of Technical Staff II

- Merged from Pivotal Software

Environments App

- Developed on a **Ruby on Rails application** adding support for pooled Cloud Foundry on Kubernetes environments with test driven development and Kanban system

Pivotal Web Services

- Developed application to **Automate certificate rotations** on the platform with **test driven development** in Ruby
- Building **CI/CD pipelines** to automate zero downtime CVE upgrades to the platform
- Migrated monitoring platform from Datadog to Wavefront while rethinking SLO/SLIs from first principles
- Running alpha versions of Cloud Foundry at scale (over 1,000 Application Instances) for tighter feedback cycles and performance testing
- Developing alpha development of Cloud Foundry on **Kubernetes** to check for performance issues

Software Engineering Intern

May 2018 to Aug. 2018

Release Integration

- Worked on a release integration system supporting open source Cloud Foundry (open source 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 **Python** tooling along with CI/CD to automate such as SQL auto-recovery and backup on critical user data

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
- 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 <https://bit.ly/2uC7GIB>.

Computer Science Creativity

Wrote an article discussing the benefits of having a creative hobby in computer science. The article was featured on multiple tech news sites and the **front page of Hacker News**. The article is published at 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.