

□ (+1) 412-657-2741 | Streng@andrew.cmu.edu | Athtps://fanpu.io | Infanpu |

## **Summary**

I have experience working on both infrastructure at scale at Asana as well as full-stack systems at Saleswhale. I can work in cross-functional teams, effectively investigate and resolve infrastructure problems by synthesizing logs and metrics from many sources, work autonomously on open-ended problems, and translate product requirements into technical features. I am interested to work on the backend and infrastructure. I love startups, learning new things, and I am a big fan and user of Arch Linux.

### Education

#### **Carnegie Mellon University**

Pittsburgh, PA, USA

Aug. 2018 - Expected May. 2022

B.S. IN COMPUTER SCIENCE

- GPA: 4.0, Dean's List (2019)
- Activities:
- Plaid Parliament of Pwning (Cybersecurity & CTF competitions)
- Autolab Project Lead (Open source platform for auto-grading programming assignments, 419 stars on Github, 4k users in CMU and used in 20+ colleges worldwide)
- · Courses:
- Cloud Computing (Graduate)
- Introduction to Computer Systems
- Introduction to Computer Security
- Great Theoretical Ideas in Computer Science Principles of Functional Programming
- Parallel and Sequential Data Structures and Al- Multi-Dimensional Calculus gorithms
   Algebraic Structures

# Work Experience \_\_\_\_\_

Asana San Francisco, USA

SOFTWARE ENGINEERING INTERN (INFRASTRUCTURE MANAGEMENT)

May 2019 - Aug 2019

- Achieved better infrastructure modularity and significant cost savings by updating in-house Kubernetes deployment framework to allow worker clusters to share AWS EKS control planes. Design document written and circulated internally for future enhancement
- Served twice as Infrastructure Management On-Call to investigate, triage, and fix infrastructure failures and issues such as broken infrastructure due to bad commits, Kubernetes deployment failures, AMI build failures, AWS rate-limiting problems, Datadog alerts
- Shadowed senior Infrastructure engineer as Infrastructure On-Call Trainee to respond immediately to urgent infrastructure failures and outages and approve/deny production change requests. Involved in resolving a major infrastructure outage (2h downtime) due to MySQL database contention issues
- Enable greater developer velocity and erase technical debt by incrementally converting infrastructure scripts from Python2 to Python3
- · Avoid regression of this conversion by writing custom lint rules for deprecated behavior using Pylint
- Automated installation of Python3 on all developer machines
- Created a testing framework for these lint rules that are run during the Bazel build process

Saleswhale (YC S16)
Singapore, Singapore

JR. SOFTWARE ENGINEER

Nov. 2017 - Aug. 2018

- Regularly delivered core product features and bug fixes for the main Saleswhale app with Rails, Ember.js, RSpec, Redis, Sidekiq. Contributed to product meetings and sign-offs.
- Empowered the Customer Success team in performing account onboarding, management, and health reporting by architecting and building an internal tool from scratch with Rails, Ember.js, Rspec, SemanticUI, Gulp. Took ownership of it and regularly updated it to support the internal operational requirements of our product roadmap and in response to user feedback
- Drastically reduced product testing times and accelerated feature releases by building and automating the deployment of a testing framework microservice with Rails, AWS SQS, Docker, Fabric from scratch to mock the asynchronous operations of another bottleneck micro-service
- Took charge of engineering support tickets filed by other departments related to codebase that I am familiar with, and to investigate, prepare, and deploy a fix if necessary
- · Helped the Operations team meet key SLAs by developing a Tableau workbook from scratch to return insights on operational metrics and performance
- · In charge of the algorithms & data structures segment of the technical interview for hiring new software engineers

### Honors & Awards

2019	Finalist, CSAW Capture-The-Flag Competition	NYC, NY, USA
2019	Third Place, Hackberry Pi (Hackathon)	Pittsburgh, PA, USA
2018	First Place, Home Invasion 2018 (IoT-CTF)	Singapore
2018	Silver Award, Cyber Defenders Discovery Camp	Singapore
2018	Winner, People's Choice, NUS Hack&Roll 2018	Singapore
2015	Silver Award, National Olympiad in Informatics	Singapore