

# Takao Shibamoto

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## Objective

Actively looking for a full-time position in the field of Security Software, DevOps, Python Development, and Web Development starting January 2020.

## Experience

**PayPal**, San Jose, CA May 2019 - Aug 2019 & May 2018 - Aug 2018

### Software Engineer Intern

- Improved the interaction between firewall ticket requesters and network security engineers.
- Decreased the processing time by 3-5 times by developing a user-friendly web application.
- Automated routine tasks of the corporate network firewalls by writing Python scripts.
- Secured the web application by integrating SSL/TLS and Single Sign-On.
- Suggested and implemented automated deployment/testing using Git, Docker, and Selenium.
- Deployed the application on production CentOS/Ubuntu VMs, collaborating with other teams.
- Troubleshooted network issues and applied changes on Palo Alto Networks Firewalls.

**Iowa State University**, Ames, IA

May 2017 - Present

### Network Security Teaching Assistant

- Actively manage 900+ VMs on VMware vSphere for 90+ students.
- Automated VM deployment/status checking by writing user-friendly PowerCLI scripts.

### Software Research Assistant

- Developed Primer Server, an open-source genome analysis web application.
- Developed Tissue Sample Plate Mapper, an open-source Google Sheet Addon that helped organize seed samples in a grid format, which is used by 90+ users around the world.

## Education

**Iowa State University**, Ames, IA

Expected Graduation in Dec 2019

- **Major:** Bachelor of Science in Computer Engineering & Minor in Cyber Security
- **GPA:** 3.82 / 4.0

## Projects

**Care Taker** (Won Best Internet-of-Things Hack Prize) HackISU Fall 2017

- Developed a proof-of-concept Implementation of an online pill alert system.

**Smart RL Bot** (Won Wolfram Alpha Prize) MadHack Fall 2018

- Developed a self-learning bot for a game called Rocket League.

### Cyber Defence Competitions

Feb 2018 - Present

- Led a blue team and competed with 20+ teams. Designed a network on VMware vSphere.

**AIRAT** (Senior Design Project with Collins Aerospace)

Jan 2019 - Present

- Designed topic modeling that measures similarity between two requirement docs.
- Suggested bringing DevOps culture and implementing a CI/CD flow using Jenkins and AWS.

### Big Data Analytics Lab

Jan 2017 - Present

- A collection of my big data analysis experiments in Hadoop, Spark and Flink.

## Technical Skills

- Languages: Python, Javascript/Typescript, Shell, Powershell, C++.
- Tools/Frameworks: Flask, Django, React, Angular, MySQL, MongoDB, Git, Linux, Docker.