

# Takao Shibamoto

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## Education

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**Iowa State University**, Ames, IA Expected Graduation in Dec 2019

- **Major:** Bachelor of Science in Computer Engineering
- **Minor:** Cyber Security
- **GPA:** 3.82 / 4.0
- **Coursework:** Design and Analysis of Algorithms, Operating Systems, Network Security, Cryptography, Big Data Analytics (SQL, MDX, Predictive Analysis, Hadoop, Spark)

## Experience

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

- Decreased the overall processing time of firewall rule request tickets 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.
- Help students fix lab problems and suggest ideas/fixes for lab instructions.

### 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.

## Projects

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**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.

**Bootstrap 4 Jekyll Theme** Aug 2017 - Present

- Developed a highly customizable site generator theme that can be used like CMS on Github.

## Technical Skills

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