Takao Shibamoto

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Objective   Actively looking for a full-time position in the field of Security Software, DevOps, Automation, Python Backend Development, and React/Angular/Node.js Web Development starting January 2020.

Education   **Iowa State University**, Ames, IA | Expected Graduation in Dec '19
- **Major**:   **Bachelor of Science in Computer Engineering**
- **Minor**:   **Cyber Security**
- **GPA**:   3.82 / 4.0
- **Honors**: Top 2% of Engineering Department, Tau Beta Pi, Phi Kappa Phi, IEEE
- **Coursework**:
    - Network Security, Pentesting, Cryptography
    - Big Data Analytics (SQL, MDX, Predictive Analysis, Hadoop, Spark, Streaming)
    - Digital Logic (worked as an academic tutor)
    - Embedded Systems (worked as a lab TA)

Work Experience

Software Engineer Intern
PayPal, Inc., San Jose, CA | May '19 - Aug '19 & May '18 - Aug '18
- Developed Python scripts to automate various firewall operations.
- Developed a web application (Flask, React, Angular) to automate internal firewall ticketing.
- Decreased the waiting time of customers by 3-5 times and eliminated user input mistakes.
- Implemented authentication/authorization logic on the application using internal Single Sign-On.
- Deployed the applications on production CentOS/Ubuntu VMs, collaborating with other teams.
- Suggested and implemented automated deployment/testing using Git, Docker, and Selenium.
- Troubleshooted network issues using security devices such as Palo Alto Networks Firewalls.

Network Security Teaching Assistant
Iowa State University | Aug '19 - Present
- Wrote easily customizable and configurable PowerCLI scripts to automate deployment of 900+ VMs on VMware vSphere for 90+ students.

Software Research Assistant
Vollbrecht Molecular Biology Lab, Iowa State University | May '17 - May '18
- Developed Primer Server, a PCR design web application with a PhD student (Python, Angular).
- Developed Tissue Sample Plate Mapper, a Google Sheet Addon that helped organize seed samples, which is used by 90+ users around the world.

Projects and Awards

Care Taker, Best Internet-of-Things Hack Prize | HackISU Fall 2017
- Developed a proof-of-concept Implementation of an online pill alert system in Python/Angular.

Smart RL Bot, Wolfram Alpha Prize | MadHack Fall 2018
- Developed a self-learning bot for a game called Rocket League in Python/MongoDB.

Cyber Defence Competitions | Feb' 18 - Present
- Led a blue team and competed with 20+ teams. Designed a network on VMware vSphere.

Artificially Intelligent Requirement Analysis Tool (Senior Design Project) | Jan '19 - Present
- Designed a topic modeling that classifies similarity between two requirements (pandas/gensim)

Bootstrap 4 Jekyll Theme | Aug' 17 - Present
- Developed a markdown-based site generator that works seamlessly on Github Pages.

Skills   Languages: Python, JavaScript/TypeScript, SQL, Bash, C++, Java, PowerShell, Japanese.
Tools/Frameworks: Linux, Flask, React, Angular, Firewalls, Docker, MySQL, MongoDB.