Joseph K Phan
The Aspiring Systems Architect

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EDUCATION

Santa Clara University   **Sept 2014 - June 2018**
B.S. Computer Science and Engineering
Expected M.S. Computer Science and Engineering in the summer of 2019

SKILLS

Confident Programming Languages: Python, Node.js
Other Programming Languages: Go, Java
Tooling Experience: Kubernetes, Docker, Helm, Terraform, Prometheus, Grafana, Influxdb, Ansible, Jenkins, Git
OS Experience: Ubuntu, CoreOS

EXPERIENCE

WhiteHat Security   **Feb 2019 – Present**
Systems Engineer   *San Jose, CA*
- Create a monitoring and alerting system for critical services utilizing prometheus and grafana
- Upgrade Kubernetes major versions in an immutable infrastructure

WhiteHat Security   **Dec 2017 – Feb 2019**
Associate Systems Engineer   *San Jose, CA*
- Pioneered a team to create a new platform revolved around kubernetes and was instrumental in its migration and rollout strategy
- Wrote terraform modules to fully automate the deployment of a self hosted kubernetes cluster on CoreOS (with ignition)
- Developed a kubernetes operator in Go to provide developers self-service by simplifying the kubernetes-onboarding-process
- Created Ansible playbooks to automate and monitor the backup of key data to AWS S3 for a disaster scenario

WhiteHat Security   **June 2017 – Dec 2017**
DevOps Engineer Intern   *Santa Clara, CA*
- Developed an internal dashboard product using InfluxDB and Grafana to create an outage alert system and marketing board
- Developed a CI / CD Pipeline for a Dockerized system using Jenkins and GitHub Webhooks for quick, nearly-daily releases
- Completed webinar courses on web security and developing secure code for educational purposes

Santa Clara University   **Nov 2015 – Mar 2017**
Undergraduate Research Assistant   *Santa Clara, CA*
- Developed data mining POC programs to effectively process data and discover patterns or trends in shopping transactions
- Created benchmark tests on CPLEX with OPL (Optimization Programming Language) to benchmark our algorithms
- Created scripts to gather live, targeted tweets to as data for a machine learning training set

Santa Clara University   **Dec 2015 – Apr 2016**
Teaching Assistant   *Santa Clara, CA*
- Displayed mentorship by providing guidance and support to students to create well structured C programs for business applications
- Hosted weekly and private tutoring sessions to help students understand the foundational concepts of programming

SIDE PROJECTS

Smart Mirror   **Nov 2016 – May 2018**
Software Developer
- Architected a Dockerized microservice architecture for ease of testing and deployment on a Mac, Ubuntu and Arm-Linux OS
- Design a mirror which gathered data through Google Apis in python and displayed that information using a Raspberry Pi
- Adapt the OpenCV library for hand gesture recognition so the user can navigate the mirror using his/her hand as a cursor
- Built a web application with Node.js and Express for users to register their Smart Mirror and edit their viewing preferences

Android Games   **June 2015 – Sept 2016**
Software Developer
- Developed multiplayer games using a client-server architecture with a Node.js server and Java application
- Used gaming framework, LibGDX, to handle simple animations, physics, and user input