

# KENNETH SIU

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## EXPERIENCE

### Software Engineer, Slack

*Aug. 2021 - Current*

- [Quip has merged with Slack](#)
- Working on Spaces, the embedded version of Quip inside the Slack canvas
- Managing provisioning for Spaces, including forming a new architecture for Spaces users and companies and implementing on-demand user and company provisioning

### Software Engineer, Quip

*Aug. 2019 - Aug. 2021*

- Worked on the IT Buyer team on various enterprise level features
- Owned the [Admin Console](#) and managed all incoming admin-related issues and feature requests
- Implemented [Mirrored Salesforce Permissions](#) for [Live Reports](#), which restricts access levels for data security
- Refactored the site and account merge process on Quip's Intranet and Admin Console
- Led the production and Mac release engineering rotation, mentored several new hires to the release process, and updated internal documentation on how to do releases
- Participated in the Production Issues and On Call rotations to ensure the scalability and reliability of the platform
- Participated in the [Quip Diversity Scholarship](#) as a judge and host for multiple years
- *Technical Skills:* Python, React, Typescript, Protocol Buffers, MySQL, Redis, Docker, Kibana, Prometheus, Grafana

### Software Engineer, Proofpoint

*Aug. 2018 - Aug. 2019*

- Worked on the [Threat Intelligence Engineering](#) team to gather threat related intelligence to prevent attacks and reduce risk
- Built a web tool which allows threat researchers to create, edit, validate, and export network IDS signatures
- Developed API calls to allow customers to have download access to [Emerging Threats Pro Rulesets](#), a compilation of IDS/IPS signatures updated daily
- Gathered metrics to visualize telemetry data on customers downloading the Emerging Threats Pro Rulesets, and set up alerting and monitoring based on various thresholds
- *Technical Skills:* Python, Django, Scala, Play, Ansible, MySQL, PostgreSQL, Prometheus, Grafana

### Software Engineer Intern, Symantec

*Nov. 2017 - Jun. 2018*

- Worked on the ID Analytics team to automate ETL workflows, including the process of generating consumer reports for fraud and credit risk management
- Developed a load balancing algorithm to distribute consumer report generation across different servers
- Generated post-processing data workflows to present easy-to-interpret diagnostics to assess the validity of model output
- Prototyped decision tree machine learning models with custom weighting parameters to isolate records with desired characteristics and generated a GraphViz representation of the decision tree
- *Technical Skills:* Python, Pandas, Numpy, Matplotlib, Jupyter Notebooks, Scikit-learn, Sklearn

### Software Engineer Intern, Cisco

*June 2017 - Sept. 2017*

- Worked on the application development team to develop a big data web application to analyze hardware data for Cisco's [Unified Computing System Manager](#)
- Designed the database schema, which stored parsed hardware components data from over 60,000 log files
- Created a form builder using PHP, HTML, and CSS to allow hundreds of users to easily query and filter searches
- Generated dynamic CSV files and graphs to help users visualize and analyze data
- Implemented a caching system using cron jobs to generate static CSV files and graphs generated on a daily basis
- *Technical Skills:* Python, PyMongo, MongoDB, PHP, HTML, CSS, Plotly, Cron

### Software Engineer Intern, Microsoft

*July 2015 - Sept. 2015*

- Worked on the application development team to create a live voting mobile application for Television Broadcasts Limited
- Designed the database schema which stored hundreds of thousands of live user votes on a daily basis for several weeks
- *Technical Skills:* C#, SQL, Microsoft Visual Studio

## EDUCATION

**B.S. Computer Science**, University of California, San Diego, *Cum Laude (GPA: 3.73/4.00)*

*Graduated July 2018*

## SKILLS

**Programming Languages:** Python, React, JavaScript, PHP, HTML, CSS, Bash

**Tools & Frameworks:** Kibana, Prometheus, Grafana, SQL, MongoDB, Redis, Protocol Buffers, Docker