Victor Chen

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Work Experience

Sep 2019 - Jan 2020 — **Software Engineer**, *Quora*, Mountain View, CA.
- Recovered knowledge, rebuilt, and refactored the SSH infrastructure that allows employees to SSH into their dev environments
- Improved documentation of security and SSH infrastructure, as well as the on-call process for SecEnv Team
- Began research work and setup into AWS infra migration for security, cost, and speed improvements
- Refactored and improved the creation and removal process of development environments for new and former employees
- Wrote an SSH bastion for connecting to Kubernetes nodes in different regions
- Performed security audits on code migrations, to verify that internal security guidelines were maintained
- Technical Skills: Python, Terraform, Docker, Grouper API, AWS API

Jun 2018 - Sep 2018 — **Software Engineering Intern**, *Quora*, Mountain View, CA.
- Upgraded the infrastructure to detect CVE security vulnerabilities in third party libraries/dependencies and spawn bug reports
- Aggregated Python, apt, Maven, JavaScript, C++ packages and manifest files to identify CVE vulnerabilities
- Wrote cron jobs to identify and remove insecure security groups in AWS RDS Databases
- Built an internal hiring tool to suggest candidates for recruiting based on their Quora activity.
- Technical Skills: Python, Terraform, Github API, Phabricator API, AWS API

Sep 2017 – Dec 2017 — **Software Engineering Intern**, *Snapchat*, Venice, CA.
- Designed a security linter that lints all internal repos and pull requests for cross-site scripting (XSS) and CSRF vulnerabilities
- Technical Skills: Node, Flask, Python, ESLint API, Github API, GAE, GAE Flex, Google PubSub, LCA

Jun 2017 – Sep 2017 — **Software Engineering Intern**, *Google*, New York, NY.
- Added support for Text Wrapping property (determining if text is confined or overflows past the boundaries of a shape)
- Extracted the Text Wrapping property when importing/exporting to Slides from/to PPTX, and added support for client-side and server-side rendering
- Technical Skills: Java, JavaScript, ClojureScript, Android

Jun 2016 – Aug 2016 — **Software Engineering Intern**, *SAP*, Palo Alto, CA.
- Worked on the Open API team, developing internal tools for other employees and customers to use
- Developed several programs to create, parse, verify, and diff-check XML files
- Languages and Frameworks: Java, JavaScript, Spring Framework, XML DOM API, SAX API, DTD API, XML Schema API

Education

June 2019 — **Master of Science, Computer Science**, *UC San Diego*, Focus: Systems and Security, *GPA - 3.79*.

Sep 15-Jun 18 — **Bachelor of Science, Computer Science**, *UC San Diego*, Provost's Honors, *Major GPA - 3.96*.

Projects

May 2016 - June 2019 — **Autograder Web Developer**.
- Team lead of autograder.ucsd.edu, a website used by 2000+ UCSD CS students and professors to facilitate student-tutor queues and automated homework grading
- Implemented browser notifications feature to notify students when tutors were available for help, reformatted UI of homework grading platform, automated email reminders, and implemented Night Mode CSS theme
- Technical Skills: Java, JavaScript, JQuery, Play Framework, SQL, React

March 2017 - April 2017 — **Percept**, *LA Hacks 2017*, **Best User Experience Award by Disney**.
- Web application that inspires users with past photos with specified locations/objects for their next great photo
- Integrated Google Maps API and Datamuse API into backend
- Technical Skills: JavaScript, JQuery, Node.js, Express, Google Maps API, Datamuse API, Flickr API, Microsoft Computer Vision API

Technical Skills

Proficient — C, C++, OCaml, Haskell, Android, HTML, CSS

Intermediate — Java, JavaScript, Python

Other — AWS, React, Node.js, Play, JQuery, AngularJS, SQL, MongoDB, Firebase, Bash, Terraform, Docker, Kubernetes