Alan Yee

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WEBSITE

EDUCATION

UC SAN DIEGO
BS in Math-Computer Science
June 2018 | La Jolla, CA
Provost Honors

KIPP KING COLLEGIATE
June 2014 | San Lorenzo, CA
Summa Cum Laude

LINKS

Github:// **alanyee**
LinkedIn:// **alayee**
Keybase:// **alyee**

COURSEWORK

UNDERGRADUATE
Quantum Information (Graduate)
Programming Languages
Cryptography
Operating Systems
Design and Analysis of Algorithms
Automata Practicum
Software Engineering
Advanced Data Structures
Theory of Computability
Discrete Mathematics
Object-Oriented Design

ONLINE
Machine Learning
Cryptography
Algorithms: Design and Analysis
Data Science
Quantum Computation

SKILLS

PROGRAMMING
Python • C++ • Golang • C • Rust
JS • SQL • Ruby • Java • HTML
Haskell • LaTeX • Bash • PHP • CSS

TECHNOLOGIES
AWS • Distributed Systems • GCP • REST
Docker • Terraform • Jupyter • Linux
Git • TensorFlow • Ruby on Rails • CICD

WORK EXPERIENCE

TIKTOK | Software Engineer
Nov 2021 – Present | Mountain View, CA

INTUIT | Software Engineer
June 2018 – Oct 2021 | Mountain View, CA
- Develop, maintain, and lead projects surrounding distributed systems, platform, REST API, and SDKs (Python, Golang, C++) for the Red Team, security automation, and vulnerability management
- Automate security infrastructure in Python, Terraform, Docker, and AWS
- Perform penetration testing based on CVEs and other common exploits
- Analyze web traffic and internal data to combat adversaries via BigQuery
- Host and record an internal course for teaching practical applications of Python and general software engineering best practices

SAN DIEGO SUPERCOMPUTER CENTER | Research Assistant
Mar 2015 – June 2018 | La Jolla, CA
- Developed software in Python and C++ for an international data placement lab
- Boosted and tested experimental network protocol over high-speed networks

INTUIT | Security Engineer Intern
June 2017 – Sept 2017 | San Diego, CA
- Collaborated with Threat analysts in the Red Team, using machine learning algorithms to defend against adversaries and monitor Dark Web activities, using Tensorflow, scikit, and Google BigQuery

INTUIT | Software Engineer Intern
June 2016 – Sept 2016 | San Diego, CA
- Delved into TCP/IP and network programming in Python, SQL, and Ruby with the Product Infrastructure and Network Automation team

SAP LABS | Software Design and Engineer Intern
June 2015 - Aug 2015 | Palo Alto, CA
- Migrated on-premise and Amazon Web Services (AWS) analytical solutions to new cloud platform through XSJS, Node.js, SQL, and Jenkins for the Platform Solutions Team and the Startup Focus Team (SFP)
- Created a company tutorial website on the Hana Cloud Platform with HTML5 and Bootstrap for the internal integration of telepresence robots

ACCENTURE TECHNOLOGY LABS | Support Analyst
June 2014 – Aug 2014 | San Jose, CA
- Worked on the Data Insights Research and Development Group to create data visualizations of over 675,000 chess endgames using a Python parser and D3.js
- Collaborated with the Digital Experience Research and Development Group to construct an IoT security device through REST API based on MVC architecture of MongoDB, Jade, and Mongoose through Node.js framework

MARTINEZ RESEARCH GROUP AT STANFORD | Research Intern
June 2013 – Aug 2013 | Stanford, CA
- Improved the back-end of the NVIDIA GPU-based quantum chemistry simulation, TeraChem, and made the haptic interface more reliable and accurate, through C and C++
- Improved graphics and responsiveness of VMD Chem, the front-end UI connected to TeraChem, through Tcl