

SEAN YEH

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WORK EXPERIENCE

UCSD ITS

Mobile Application Developer

📅 September 2018 – December 2018

- Led a team of two other students collaborating alongside UCSD's ITS team to add the tutor notification feature, notifying students of available tutoring sessions for their classes
- Created a Node.js service that aggregated information on the availability of student tutors and served the data to the front-end application
- Successfully integrated with UCSD's mobile portal to send personalized notifications of their current classes with a tutoring session available when a logged-on student opens the application

Ducommun

Network Security Intern

📅 June 2018 – September 2018

- Developed an automated Python script that identified network vulnerabilities in need of remediation by scanning IP addresses with NMap, then parsed and wrote the results to a filtered excel log file with Openpyxl
- Reduced security threats such as unauthorized access to sensitive information by performing and testing SOX security controls with Python and Excel to identify and verify terminated and new accounts
- Constructed a blacklist from security reports to detect and prevent malicious activity
- Researched and presented on Windows 2000 Server vulnerabilities such as DES encryption and MD5 to promote the update of outdated servers

Beckman Coulter

Salesforce CRM Analyst Intern

📅 June 2017 – September 2017

- Performed QA testing with HP UFT to create a regression testing system for Beckman's Oracle CPQ orders for over 30 test scripts
- Made robust and efficient test scripts using descriptive programming to handle multiple inputs and reduce table entry time for load testing from 5 seconds to 2 seconds per item
- Programmed in VBScript to manipulate (read, write, open, and close) Excel files

Leisure Garden Furniture

Independent Contractor

📅 June 2016 – September 2016

- Implemented an Open Database Connector (ODBC) between LGF's Salesforce account and FedEx Ship Manager that automated, minimized errors, and reduced the time to print a FedEx shipping label from minutes to less than 5 seconds
- Set up many-to-many relationships between products and parts in LGF's inventory database; Afterwards, wrote SOQL queries across those relationships that corrected inventory counts on LGF's Salesforce account

EDUCATION

University of California, San Diego

B.S. in Mathematics-Computer Science

📅 September 2016 – March 2019

PROJECTS

Side Channel Attacks

Computer Security

📅 Winter 2019 | January 2019 – March 2019

- Used a timer and protected memory to correctly identify characters of the user's password one character at a time.
- Exploited computer vulnerabilities such as buffer overflows, double free, SQL injections to gain unauthorized access to an account or computer.

COURSEWORK

- Computer Security
- Machine Learning: Statistical Approaches
- Advanced Data Structures
- Design and Analysis of Algorithms
- Operating Systems
- Numerical Linear Algebra
- Software Engineering

SKILLS

Programming Languages, Libraries

C C++ Java Python Javascript
Assembly (SPARC) VBScript HP UFT
Linux Git

RESEARCH

Harvard Visual Computing Group

What Makes Visualizations Memorable

📅 July 2012 – August 2012

- Learned Python and used the Beautiful Soup package to create a script that would gather titles, text bodies, and infographics pertaining to 500-700 articles on the web, to contribute to the publication: "What Makes a Visualization Memorable."