# Vincent Yang

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#### SKILLS

#### **PROGRAMMING**

Proficient:

Python • Java • C++ • JavaScript ¡Query • HTML • CSS

Familiar:

R • Bash Scripting • C Logstash • ElasticSearch • Kibana

#### PLATFORMS & FRAMEWORKS

Linux • Meteor • Flask • Node.js • MySQL MongoDB • PostgreSQL • SQLite

#### **USEFUL TOOLS**

Travis CI • Jenkins • Git • LATEX gdb • nose • Vim • Heroku Metasploit • WireShark • Nmap

### **EDUCATION**

# M.S. IN COMPUTER SCIENCE UC DAVIS

Incoming Dec 2017 | Davis, CA Focus in Computer Security

# **B.S. IN COMPUTER SCIENCE** UC DAVIS

Expected Dec 2017 | Davis, CA Cumulative GPA: 3.4/4.0

## COURSEWORK

#### **GRADUATE**

Surveillance Resistant Communications

#### **UNDERGRADUATE**

Cryptocurrency Technologies (Instructor)
Algorithm Design
Data Structures & Programming
Databases
Networks
Cryptography

## **AWARDS**

Google Games 2017 (1st)
Teradata Annual Intern Hackathon (1st)
HackDavis Best Use of Amazon Alexa (2nd)
CITRIS Mobile App Challenge (2nd)
Boy Scouts of America (Eagle Scout)

# **EXTRACURRICULARS**

Davis Computer Science Club (Tutor) HackDavis (Developer) Davis Consulting Group (VP, Developer)

#### **EXPERIENCE**

#### COURSE HERO | FULL STACK SOFTWARE ENGINEER INTERN

Upcoming Summer 2017 | Redwood City, CA

• Full stack development with Linux, Apache, MySQL, PHP, Python, React

#### TERADATA | CONTINUOUS INTEGRATION/DEVOPS INTERN

June 2016 - September 2016 | San Diego, CA

- Created a site to track 400+ projects using Python, TeamCity, and Github REST APIs, MySQL, HTML/CSS, JavaScript, Perl
- Extended svn2git with Ansible, Jenkins, Git, Svn for 11,000 employees
- Linux Meteor Flask Node.js MySQL Built a dash to monitor Github & TeamCity with Elasticsearch, Logstash, Kibana
  - Automated Jira workflows with webhooks, REST APIs, MySQL & Python

#### UC DAVIS COLLEGE OF ENGINEERING | INSTRUCTOR

January 2016 - June 2016 | Davis, CA

- Co-taught/planned/created **Cryptocurrency Technologies** a class on creating digital currency from cryptographic primitives and distributed concensus protocols
- Covered advanced topics such as Bitcoin, Bitcoin Lightning, Ethereum, DAO
- Designed and implemented 5 assignments, programs, and grading scripts in Python

#### **IDENTITYMIND GLOBAL** | SOFTWARE ENGINEERING INTERN

June 2015 - August 2015 | Palo Alto, CA

- Created a web crawler and scraper in Python with urllib, Scrapy, and BeautifulSoup to fill a MySQL database of 1,000,000+ criminal profiles
- Tested for cross-site scripting (XSS) vulnerabilities and SQL Injections

#### RESEARCH

# UC DAVIS ENGINEERING | UNDERGRADUATE SECURITY RESEARCHER March 2016 - Present | Davis, CA

• Researching OWASP Top Ten with pentest tools such as Metasploit, nmap, Mutillidae, Wireshark, and Kali Linux under **Dr. Matt Bishop** for UC Davis and Intel

# UC DAVIS ENGINEERING | Undergraduate Researcher

January 2017 - Present | Davis, CA

 Visualizing multidimensional data for CRAN Package freqparcoord under Dr. Norm Matloff

#### **PROJECTS**

#### PREDICT ELECTIONS | PREDICTED THE 2016 CALIFORNIA PRIMARY

April 2016 - May 2016 | https://predict-elections.herokuapp.com

• Utilized Huffington Post API, Node.js, SQLite, JavaScript, HTML5, CSS3, D3.js

### POWER GRID LOAD BALANCER | BALANCE ENERGY DISTRIBUTIONS

April 2015 - May 2015 | code available upon request

• Transformed multiple source/sink to min-energy max-flow graph for BFS

# YELP & CHILL | DISCOVER NEW LOCATIONS FROM YOUR BRICK PHONE

June 2016 – July 2016 | http://www.yangvincent.com/yelp-and-chill
• Employed Python, Yelp/Twilio/Google Directions APIs, Travis CI, and Heroku

#### **LEMPEL-ZIV-WELCH** | Lossless Compression

October 2011 - November 2011 | https://github.com/YangVincent/FileZip

• Implemented Lempel-Ziv-Welch lossless data compression with dictionaries, bitwise operators, and StringBuilders to achieve a 45% compression ratio.