

Vincent Yang

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SKILLS

PROGRAMMING

Proficient:

Python • Java • C++ • JavaScript
PHP • jQuery • HTML • CSS • R

Familiar:

Prolog • C • Lisp • Bash
Logstash • Erlang • Haskell

PLATFORMS & FRAMEWORKS

Linux • Node.js • Symfony • Flask
Meteor • Doctrine • MySQL • MariaDB
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

Expected June 2018 | Davis, CA
Cumulative GPA: 4.0/4.0

B.S. IN COMPUTER SCIENCE

UC DAVIS

Expected Dec 2017 | Davis, CA
Cumulative GPA: 3.5/4.0

COURSEWORK

GRADUATE

Computer Security
Surveillance Resistant Communications

UNDERGRADUATE

Algorithm Design
Data Structures & Programming
Networks
Cryptography
Advanced Topics in Security

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

June 2017 – September 2017 | Redwood City, CA

- Architected/integrated context-sensitive notifications for 100% (50k) of tutors; allowing for targeted messaging and streamlining moderator interactions
- Created a spam detection to eradicate tutors spamming contact information
- Full stack development with PHP, Symfony, Doctrine, Docker, Linux, MariaDB

TERADATA | CONTINUOUS INTEGRATION/DEVOPS INTERN

June 2016 – September 2016 | San Diego, CA

- Created a site to track 400+ projects using Python, Flask, TeamCity, and Github REST APIs, MySQL, HTML/CSS, JavaScript, Perl
- Extended svn2git with Ansible, Jenkins, Git, Svn for 11,000 employees
- 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 consensus 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 | GRADUATE DATA SCIENCE RESEARCHER

January 2017 – Present | <https://github.com/matloff/cdparcoord>

- Created **cdparcoord**, a CRAN package for visualizing multidimensional data with frequency-based parallel coordinates with **Dr. Norm Matloff**.
- Research Paper: <https://arxiv.org/abs/1709.00665>

UC DAVIS ENGINEERING | UNDERGRADUATE SECURITY RESEARCHER

March 2016 – Present | Davis, CA

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

PROJECTS

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

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

TEXT YELP | DISCOVER NEW LOCATIONS FROM YOUR BRICK PHONE

June 2016 – July 2016 | <http://www.yangvincent.com/text-yelp>

- Search Yelp, find directions, and get recommendations through text!
- Employed Python, Yelp/Twilio/Google Directions APIs, Travis CI, and Heroku