

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

Surveillance Resistant Communications

UNDERGRADUATE

Cryptocurrency Technologies (*Instructor*)
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 - Present | Redwood City, CA

- Architected/integrated context-sensitive notifications for all 50,000 tutors; enabling 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