Terry Chen

Student, Web Developer, Problem Solver.

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Skills

Data science	pandas, NumPy/SciPy
Proficient languages	Python, JavaScript, Julia, C++, PHP, Java, CSS, HTML
Web tooling	React, OAuth 2.0, Jekyll, Webpack, MySQL
Sysadmin & DevOps	Git, Vagrant, Bash, Zsh, Travis CI, CircleCI

Project Experience

Lead web developer / Markville Computer Science Education Club   June 2017 – June 2018

- Designed, built, and released a Jekyll-based website that enabled volunteers to easily create, maintain, and manage content with little technical experience.
- **Implemented client-side search**, bypassing a major limitation of sites hosted on GitHub Pages.
- Using CircleCI, separated asset and content build pipelines and reduced external resource overhead to **increase client-side performance to the 95th percentile of websites worldwide**.

Web designer and full stack developer / EverythingDojo.com   May 2014 – June 2015

- Worked on initial mockups, user interface, style guide, database, and CMS.
- Acquired JavaScript and PHP proficiency to transition into a key developer, helping modernize back-end APIs and rebuild the front-end.
- Advised on application security, including vulnerability scanning and penetration testing, overseeing switching to bcrypt for password hashing, and **managing hotfix deployment for zero-day exploits**.

Other experience

Member / GooseCTF   September 2018 – Present

- Placed 2nd overall in the 2018 Pwn2Win CTF.
- Top-20 U.S.–Canada undergraduate finish in the 2018 CSAW CTF Qualifying Round.
- Personal specialization in web exploitation and forensics

Captain / Teens Conference 2018   September 2017 – March 2018

- Worked with two co-captains to lead 20+ high-school youth in games, activities, and Bible studies.

Calculation Solitaire / Grade 12 Computer Science Final Project   November 2016 – January 2017

- Implemented the Flux application architecture in a limited subset of Java to streamline data flow, avoid platform performance issues, simplify front-end component design, and reduce code reuse.

Awards

31st worldwide / Chem 13 News Exam	2018
Top 25% worldwide / Euclid, Hypatia, Galois, Fryer Mathematics Contests	2013 – 2018

Education

Candidate for **Honours Bachelor of Computer Science** / University of Waterloo   Expected 2018 – 2022