



Clive A. Chan

<https://clive.io> | cc@clive.io

UWaterloo Software Engineering '21

Self-taught, full-stack, web-focused. 8+ years of experience. Passionate about machine learning and tech outreach.

Citizenship USA/Canada Dual

Languages English, native fluency; Mandarin, basic fluency

Experience & Skills

Notable public projects: clive.io, lexscibowl.org, live.lexhack.org, lhsmath.org, calcbee.org, vocative.github.io

Lines of code: 100,000+ public on GitHub (github.com/cchan)

Work and Research Experience

SkillFlow developer, 2016-present

Palo Alto startup creating a live collaboration platform for software developers in need of experienced help, using Slack chatbots.

VitaeDev co-founder, 2016-present

Lead developer in startup writing modern websites for Lexington-area businesses. Free services to nonprofit community organizations. <vitadedev.com>

MIT PRIMES researcher, 2016-present

Network meta-analysis of cancer treatments to fairly compare treatment comparison studies with different parameters and results.

Kumon Teaching Assistant, summers 2014-15

Taught children in math & reading; supervisor of my section of TAs.

KTByte Teaching Assistant, summer 2014

Helped students learn Processing & build their own interactive projects.

Private C++ instructor summer 2013

Taught basics of C++ programming to elementary school students.

Web Development Languages/Technologies

***bold** indicates particular expertise

General: **Git & GitHub**, **Bash**, DOS Batch, FDD, BDD, Travis CI *Research:* **C/C++**, **Java** with Maven, **Python**, NumPy, TensorFlow, **Octave**/MATLAB, R, LaTeX *Web Frontend:* **HTML5**, **CSS3** with **Sass**, **JavaScript**, **JQuery**, AngularJS, ReactJS, Socket.IO, Firebase *Apache Webserver:* **PHP**, **MySQL**, **PHPMyAdmin** *NodeJS Webserver:* **NodeJS**, **Express**, **CoffeeScript**, Gulp, NoSQL *Linux Server Admin:* **Amazon EC2**, **DNS**, **SSL**, Networking, HTTP, SSH, Curl, RedHat OpenShift, CloudFlare *Other:* RESTful APIs, GPG, Raspberry Pi, Arduino, Verilog

Academics

University of Waterloo Software Engineering, Co-op: 2016-2021

Lexington High School (Lexington, MA): 2012-2016

AP Scores

5 on Calculus AB & BC, Biology, Chemistry, Physics C Mechanics & E&M, Computer Science, Statistics, and Macro/Micro Economics; National AP Scholar

National Merit Scholarship Finalist

Supplementary Courses

Multivariable Calculus and Linear Algebra courses at Harvard Extension School, gr. 10
Coursera Machine Learning, gr. 10-12

National Science Competitions

USA Computing Olympiad Platinum League

USA Chemistry Olympiad 2x School Finalist

USA Physics Olympiad Silver Medalist

USA Math Olympiad AMC 12 School Winner, 5x AIME qualifier

Leadership

FIRST Robotics

LexHack high school hackathon, Co-Founder and Co-Director, gr. 11-12 (lexhack.org)

OpenSource town grant-funded High School MakerSpace, Co-Founder and Co-Director, gr. 11-12

FIRST Tech Challenge Team, Research & Development Lead, gr. 11-12

Science Bowl

LexSciBowl middle school science contest, Founder and Director, gr. 11-12 (lexscibowl.org)

National Science Bowl Team Co-Captain of national 4th place team (physics specialist), gr. 12

Math Team

Lexington Math Tournament middle school math competition, Director, gr. 11-12 (lhsmath.org/LMT)

Math Team Co-Captain, gr. 11-12

Webmaster, gr. 10-12

(github.com/cchan/lhsmath.org)