



# CLIVE A. CHAN

<https://clive.io> | [cc@clive.io](mailto: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

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## EXPERIENCE & SKILLS

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

### Work & Research Experience

**SkillFlow** software engineer, 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. <[vitadev.com](https://vitadev.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(S), SSH, Curl, RedHat OpenShift, CloudFlare *Other:* RESTful APIs, GPG, Raspberry Pi, Arduino, Verilog

### Selected Projects

[clive.io](https://clive.io) [lismath.org](https://lismath.org) [vocative.github.io](https://vocative.github.io) [lexscibowl.org](https://lexscibowl.org) [live.lexhack.org](https://live.lexhack.org) [calcbee.org](https://calcbee.org) [npmjs.com/package/mindelay](https://npmjs.com/package/mindelay)

## ACADEMICS

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

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

**SAT** 2360 SAT (superscored); 240 PSAT; 800 SAT II Math I & II, Chemistry, Physics

**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](https://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](https://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 ([lismath.org/LMT](https://lismath.org/LMT))

**Math Team** Co-Captain, gr. 11-12

**Webmaster**, gr. 10-12 ([github.com/cchan/lismath.org](https://github.com/cchan/lismath.org))