



CLIVE A. CHAN

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

UWaterloo Software Engineering '21

Self-taught full-stack programmer. 8+ years of experience. Passionate about machine learning and STEM outreach.

Citizenship USA/Canada Dual

LinkedIn [linkedin.com/in/cchan3141](https://www.linkedin.com/in/cchan3141)

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EXPERIENCE & SKILLS

Lines of code: 120,000+ public on GitHub [<github.com/cchan>](https://github.com/cchan)

Work & Research Experience

VitaeDev co-founder & lead developer,
2016-present

Lead developer in startup writing modern websites for Lexington-area businesses. Free services to nonprofit community organizations. [<vitae.dev>](https://vitae.dev)

(Stealth Mode company) software engineer,
2016-present

Startup headquartered in California where I work on a NodeJS application with a global team using modern development processes and paradigms. (Under NDA)

MIT PRIMES researcher, 2016-present

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

KTByte Teaching Assistant, summer 2014

Helped students learn Processing/Java & build their own interactive projects.

Web Development Languages & Technologies

**bold indicates particular expertise*

General: **Git & GitHub**, **Bash**, DOS Batch, FDD, BDD, CI, Code Review *Research:* **C/C++** with Make, **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, Google Analytics, GPG, Raspberry Pi, Arduino, Verilog

Selected Projects

vocate.github.io calcbee.org npmjs.com/package/mindelay github.com/cchan/cppNN github.com/cchan/ec2

Additionally, I have created or contributed to all linked <websites> on this page, other than LinkedIn.

LEADERSHIP

FIRST Robotics

LexHack 12hr high school hackathon, co-founder & co-director, gr. 11 & 12 [<lexhack.org>](https://lexhack.org) [<live.lexhack.org>](https://live.lexhack.org)

OpenSource town-grant-funded high school MakerSpace, co-founder and co-director, gr. 11 & 12

FIRST Tech Challenge Team, research and development lead, gr. 11 & 12; 4x World Championship qualifier

Science Bowl

LexSciBowl middle school science contest, founder and director, gr. 11 & 12 [<lexscibowl.org>](https://lexscibowl.org)

Lexington High School Science Bowl Team co-captain in gr. 12; physics & math specialist; earned 4th place nationally

Diamond Middle School Science Bowl Team co-coordinator, gr. 11

Math Team

Lexington Math Tournament middle school math competition, director, gr. 11 & 12 [<lhsmath.org/LMT>](https://lhsmath.org/LMT)

Math Team co-captain of 1st place team in both MA and New England math leagues, gr. 11 & 12

Webmaster of 70k+ LOC PHP gr. 10-12 [<github.com/cchan/lhsmath.org>](https://github.com/cchan/lhsmath.org)

ACADEMICS

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

2016 Carl A. Pollock Engineering Scholarship, University of Waterloo President's Scholarship

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 at Harvard Extension School, gr. 10
Coursera Machine Learning, gr. 10-12

Individual Science Awards

USA Computing Olympiad Platinum League

USA Physics Olympiad Silver Medalist

USA Chemistry Olympiad 2x School Finalist

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