



CLIVE A. CHAN

UWaterloo Software Engineering 1A

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Coder for 8+ years. Proficient in 10+ programming languages. 1200+ commits per year on GitHub, accumulating 100,000+ lines of code.

Hackathon founder, academic contest coordinator x2, science and math award winner x4.

TECHNICAL SKILLS

Native speaker: C/C++, Git, NodeJS, HTML5, CSS3, JavaScript (ES6+), PHP

Conversationally fluent: Java, Python, Matlab, SQL, jQuery, AngularJS, Web infrastructure

Curious tourist: Amazon EC2, NoSQL, Make, Docker, Travis CI, ReactJS, R, TensorFlow

EDUCATION

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

Fall 2016 Carl A. Pollock Engineering Scholarship, President's Scholarship

Elected Software Engineering Academic Rep

Lexington High School 2012-2016 **GPA** 3.77

Harvard Extension School Multivariable Calculus & Linear Algebra, grade 10

National AP Scholar 5s on ten AP exams

National Merit Scholarship Finalist

AWARDS

US Computing Olympiad Platinum League

US Math Olympiad AMC 12 School Winner, 5x AIME qualifier, USAJMO qualifier

US Physics Olympiad Silver Medalist

US Chem Olympiad 2x School Finalist

ACTIVITIES

Waterloop Embedded, Web, & Sponsor teams

UW Robotics Team Embedded Software team

OpenSource MakerSpace Cofounded and ran a MakerSpace after winning \$5000 town grant.

Lexington Science Bowl Team Co-captain and math/ physics specialist; 4th place nationally.

FIRST Tech Challenge 4x World Championship qualifier; led coding R&D and STEM outreach.

Lexington Math Team Co-captain; 1st place in New England and Massachusetts leagues.

EXPERIENCE

SkillFlow 🌐 *software engineer*

Jul 2016 – present

- Peak 1000+ concurrent users; 100+ downloads of open-sourced parts.
- Gained familiarity with Git workflows, NodeJS design paradigms, SQL & NoSQL, and writing thorough docs and integration tests.

VitaeDev 🌐 *co-founder*

Apr 2016 – present

- Led a team of students coding free websites for nonprofits.
- Mentored team members in LAMP stack development.

Clive.IO 🌐 *freelance web developer*

Jun 2014 – present

- Solicited multiple volunteer and paid webdev jobs, from a nonprofit's website to a full custom CMS for a local tech education business.

MIT PRIMES *computational analysis researcher*

Feb – Jun 2016

- Worked on a long-term computational research project, with guidance from an MIT professor and several Master's/PhD students.

PROJECTS

Second Harvest HungerSquad API 🌐

Oct 2016 – present

- Wrote the REST API underlying a system making on-demand match-and-dispatch possible between food donors and volunteers.

Best Hardware Hack @ ECHacks 🌐

Nov 2016 – present

- Wrote NodeJS backend for IoT voice-controlled sandwich maker.

C++ Neural Networks 🌐

Jul 2014 – present

- Neural network & matrix math library built from scratch. Used for a predator-prey simulation using genetic algorithms and backprop.

Vocative 🌐

Dec 2015 – present

- Chat platform using AngularJS, Firebase, and Material Design.
- Used to teach English class and to coordinate LexSciBowl 2016.

EC2 Server Suite 🌐

Feb 2016 – present

- Automatic server & domain maintenance tools in NodeJS and Bash.

Lexington Math Team Website 🌐

May 2013 – present

- Maintained and refactored large existing codebase, coordinating team logistics and the annual Lexington Math Tournament.

LEADERSHIP

Tech Tuesdays 🌐 *founder*

Oct 2016 - present

- Organized and hosted ongoing weekly series of student-delivered technology talks at the University of Waterloo.

LexHack 🌐 *co-founder & co-director*

Fall 2014-2015

- Directed outreach initiatives for the first high school-run hackathon in MA, with 70+ participants and \$1000+ in prizes and swag annually.

LexSciBowl 🌐 *founder & co-director*

Spring 2015-2016

- Conceived and directed all aspects of the first student-run science bowl in New England, with 70+ participants every year.

Lexington Math Tournament 🌐 *director*

Spring 2014-2016

- Handled logistics, outreach, and tech for the largest high school student-run math competition in MA, with 150+ competitors annually.