



# CLIVE A. CHAN

UWaterloo Software Engineering 1A

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Coding for 8+ years. Proficient in 10+ programming languages. 1000+ commits per year on GitHub, accumulating 120,000+ 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, Maven, Docker, Travis CI, ReactJS, R, TensorFlow

## ACADEMICS

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

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

**Elected SoftEng Academic Representative**

**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

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

**Lexington Science Bowl Team** Co-captain of 40+ student club; physics/math specialist on competing team, earning 4th place nationally.

**FIRST Tech Challenge Team** 4x World Championship qualifier; led coding R&D and STEM outreach programs like OpenSource.

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

## OBJECTIVE - CO-OP SUMMER 2017

### EXPERIENCE

**SkillFlow** 🌟 *software engineer*

**Jul 2016 – present**

- Currently beta-testing at hackathons, with 1000+ concurrent users.
- Wrote two open-source NPM modules, with 100+ downloads/month.
- Gained familiarity with Git workflows, NodeJS design paradigms, SQL and NoSQL databases, and writing thorough docs and unit tests.
- Collaborated remotely with primary team in California, using tools like GitHub, Slack, and Asana.

**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.

### SELECTED PROJECTS

**C++ Neural Networks** 🌟

**Jul 2014 – present**

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

**Vocative** 🌟

**Dec 2015 – present**

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

**EC2 Server Suite** 🌟

**Feb 2016 – present**

- Automatic server maintenance, website hosting, email bounce handling, process management, and more, 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

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