

# Hieu Le

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## EDUCATION

### TRUMAN STATE UNIVERSITY

B.A. IN MATHEMATICS

B.SC. IN COMPUTER SCIENCE

President's List (all semesters)

Expected May 2018 | Kirksville, MO

Cum. GPA: 4.0/4.0

### ACS (INDEPENDENT)

IB DIPLOMA PROGRAMME

A\*STAR Outstanding Scholar

Dean's List (3 subjects)

Graduated Dec 2013 | Singapore

IBDP Score: 44/45

### SOCIETIES

Association of Computing Machinery

Truman State Free Software Club

Truman State Arduino Club

Kappa Epsilon Mu

## SKILLS

### LANGUAGES

Core:

Java • Python • C++

Familiar:

C • JavaScript/ CSS/ HTML •  $\text{\LaTeX}$  • SQL

Bash • Ada • Haskell • Mathematica

### TECHNOLOGIES

Git • Subversion • GDB/ LLDB • Emacs

Bazel • Protocol Buffers • Python Django

Spring MVC • Maven

## COURSEWORK

### UNDERGRADUATE

Compilers

Database Systems

Data Structures and Algorithms

Parallel and Distributed Processing

Computer Architecture

Systems Programming

Discrete Mathematics

Theory of Numbers

Linear Algebra

Multivariate Calculus

### MOOC

The Data Scientist's Toolbox | Coursera

Automata | Coursera

Web Developer Skills | Codecademy

Digital Circuits | edX

Computation Structures | edX

## EXPERIENCE

### GOOGLE | ENGINEERING PRACTICUM INTERN

May 2016 – Aug 2016 | Mountain View, CA

- Implemented type schema support for one of Google's largest distributed data processing systems. Enabled 3 internal debugging tools to parse and deduce type for arbitrary protocol buffers. Introduced smarter SQL-based repository filtering logic with improved flexibility and type safety.
- Contributed 3000 lines of C++ to Google codebase. Released features for production use by over 100 Google employees. Refactored and increased test coverage for existing modules via extensive benchmarking, unit and load tests.

### FPT TELECOM | SOFTWARE ENGINEER INTERN

May 2015 – Aug 2015 | Hanoi, Vietnam

- Designed data loss prevention tool that identifies sensitive data at rest from bank servers. Integrated Perl-compatible regular expressions and Luhn algorithm to expedite detection and validation of unencrypted credit card data.
- Created text parser capable of extracting raw content and metadata from over 50 file extensions to accelerate PCREs-based pattern matching.

### CENTER OF ACADEMIC EXCELLENCE | PROGRAMMING TUTOR

Aug 2015 – May 2016 | Kirksville, MO

- Provided assistance for 30 students in Java/ Ada/ C++ programming.
- Recruited, coached and prepared problem sets for Truman's ICPC team.
- Designed a tutor scheduling application in Python for Mathematics department that leverages network flow maximization and simulated annealing.

## AWARDS

2016	Top 5 Percent	Google Code Jam
2016	Runner-up	Truman ACM Hackathon
2015	Bronze Medal	ACM International Collegiate Programming Contest
2015	Winner	Truman ACM Coding Competition
2015	First Place	booking.com Hackathon
2015	Semi Finalist	Hackerrank University World Cup
2016	Distinction	The Mathematical Contest in Modeling
2015	School Winner	Putnam Mathematical Competition
2015	Third Place	Missouri Collegiate Mathematics Competition
2013	Top 25	Harvard - MIT Mathematics Tournament

## SCHOLARSHIPS

2016	Cody Sumter Computer Science Scholarship (1 of 4 recipients)
2016	President's Honorary Scholarship (first international recipient)
2014	International Baccalaureate Scholarship

## PROJECTS

### CONTEST WIZARD | C++ • PYTHON

Command-line utility that allows competitive programmers to crawl problems from various online judges, automate bulk tests, customize solution templates, manage, archive and submit C/C++ source codes.

### SMART GREP | JAVA • PYTHON

Command-line utility that leverages traditional Unix grep command to allow regex matching over a wider range of document formats beyond plain text.