

# Brandon Chong

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## Education

University of Illinois at Urbana-Champaign

**Bachelor of Science in Computer Science**

2013 – Present

Advanced Coursework (\* = ongoing):

Web Programming

Numerical Methods

Algorithms I and II

Database Systems

Data Mining

Machine Learning

Programming Languages

Security\*

Distributed Systems\*

**Minor in Statistics**

2013 – Present

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## Development Skills

Programming Languages

Java, C, C++, C#, Python, Haskell

Web Development: HTML, CSS, Javascript and jQuery, PHP, SQL

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## Experience

Microsoft

REDMOND, WASHINGTON

**Software Developer Intern**

May '16 – Aug '16

Worked on DocumentDB: A distributed, cloud, and NoSQL database service

Developed a software testing framework to stress the query engine for correctness and performance

Designed a highly configurable tool to generate queries given a collection with served as integration tests

Enabled developers to focus on query optimization and provided confidence to customers

Epic Systems Corporation

MADISON, WISCONSIN

**Software Developer Intern**

May '15 – Aug '15

Allowed doctors to run hypothesis tests to observe statistical differences between patient treatment groups

Extended Epic's HTML5 Canvas Graph API, which is used in many data visualizations applications

Fused statistics with data visualizations to provide critical information with a friendly UI/UX

NMSI, Inc.

LOS ANGELES, CALIFORNIA

**Software Developer Intern**

May '14 – Aug '14

Maintained a loan origination system for a wholesale mortgage company

Optimized people's workflow through tooling leading to revenue growth

Maintained a MS-SQL database as well as a windows server host

University of Illinois at Urbana-Champaign

URBANA-CHAMPAIGN, ILLINOIS

**System Programming, Discrete Mathematics, and Intro to Programming TA**

Aug '14 – Present

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## Projects (contact for github link)

**Cheating Detector for Programming Courses**

Jan '15 – Present

Measures the similarity between all students for every assignment

Allows users to easily review/compare suspected matches and report them

Heavily utilizes variations of edit distance and logistic regressions

**Automated Software Testing Infrastructure for Programming Courses**

Jan '15 – Present

Eliminates the need for assignment writers to develop their own testing scripts

Allows all courses to grade their assignments just by creating a configuration file and unit tests

Uses python for the infrastructure and the unit tests can be in the writer's preferred language

Designed to grade system programming code with concurrency, I/O, and networking

Last update on August 17, 2016

Please refer to my [Website](http://www.brandonchong.net) for a more detailed explanation of my experiences and projects along with some live demos.

[www.brandonchong.net](http://www.brandonchong.net)