

# Brandon Chong

bschong2@illinois.edu • 818-661-8088

## Education

University of Illinois at Urbana-Champaign

**Bachelor of Science in Computer Science**

August 2013 – May 2017

Advanced Coursework:

Algorithms I and II

Database Systems

Numerical Methods

Distributed Systems

Data Mining

Security

Programming Languages

Machine Learning

Web Programming

## Experience

Microsoft

REDMOND, WASHINGTON

**Software Engineer II**

June '17 – Present

Enabled queries to be distributed seamlessly across many physical partitions

Enabled clients to read and write JSON documents in binary for faster reads, writes, and queries

Added support for seamless cross partition operations on the Compute Gateway

Automated query integration testing, which is now part of the weekly scrum and signoff requirements

Reworked the product's pagination story to allow for seamless scale up or down of cross partition operations

Added an end to end tracing story to reduce the time spent on high latency investigations

Microsoft

REDMOND, WASHINGTON

**Software Developer Intern**

May '16 – Aug '16

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

Developed a query engine testing framework that generates its own queries dynamically given a data set

Enabled developers to focus on query optimization and provided confidence to database users

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, ILLINOIS

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

Aug '14 – May '17

## Projects

**Cheating Detector for Programming Courses**

Jan '15 – May '17

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 – May '17

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 January 27, 2021

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)