

Brandon Chong

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science and Minor in Statistics

August 2013 – Present

Advanced Coursework (* = ongoing):

Web Programming

Numerical Methods

Algorithms I and II

Database Systems

Data Mining

Machine Learning

Programming Languages

Security*

Distributed Systems*

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 that generates its own unit tests dynamically given a data set

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 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 – Present

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

Web Applications for Programming Courses

Jan '15 – Present

Static website blogging system to allow instructors to easily deploy assignment documentation

Grade reporting system to provide feedback and logs on assignment grading

Attendance tracker to allows students to swipe into lab section for attendance with ID cards

Contest page to display performance statistics on contest based assignments

Last update on August 29, 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