

# Eric Yung

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## WORK EXPERIENCE/ACTIVITIES

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### WashU Developer Student Club

September 2020 – Present

#### Open Source Medical Records Developer Team

St. Louis, MO

- Helped develop a free electronic management software to track medical records, designed for free clinics and community organizations
- Strong emphasis on Django, React, and Object-Oriented Programming

### Varsity Tutors

May 2019 – Present

#### 100+ hours of tutoring K-12 on the Varsity Tutor platform

St. Louis, MO

- Subjects: Computer Science, Math, Standardized Testing (ACT/SAT/PSAT), Statistics, Mandarin Chinese, etc.
- Offered unique course curriculums that guaranteed grade improvement and confidence in a vast variety of subjects

## PROJECTS

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### Sudoku Solver

- Wrote and tested the run-time of two Sudoku Solver algorithms: a naive solution and a backtracking solution
- Naive solution tests all possible combinations while the backtracking algorithm uses DFS to return to checkpoints when no digit can be allotted, both have a time complexity of  $O(n^2)$
- Uses Pygame to implement a neat and simplistic GUI for random Sudoku boards

### Automated Data Entry

- Built a Python Script that automatically takes Excel spreadsheet data and enters it onto an Army ROTC survey form
- Uses Selenium, WebDriver, and Pandas to automate web applications and iterate through hundreds of rows of student information

## ONGOING PROJECTS

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### The Knight's Tour Visualizer

- Allows easy visualization of a backtracking algorithm which simulates a knight visiting every square on a chess board
- Uses Pygame to implement a chess board, animate a chess piece sprite, highlight visited squares, and redraw paths

## EDUCATION

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### Washington University in St. Louis

September 2020 - May 2024

#### Bachelor of Science in Computer Science and Economics

St. Louis, MO

- **Relevant Coursework:** Data Structures and Algorithms (CSE 247), Seminar: Data Structures and Algorithms (CSE 247R) Logic and Discrete Mathematics (CSE 240), Statistics and Data Analysis (Math 3200), Intermediate Microeconomic Theory (Econ 4011)
- **Accumulative GPA:** 3.7

### Clayton High School

August 2016 - May 2020

#### High School Degree

St. Louis, MO

- **Clubs/Activities:** Infinite Scholars Tech Specialist, Lift Off II, Varsity Tutors, Chess Club, SLU Aviation Academy

## SKILLS

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**Programming :** Python, Java, JavaScript, HTML/CSS, R, Swift

**Languages :** English (fluent), Cantonese (fluent), Mandarin (intermediate)