

# Eric Yung

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## 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:** Object-Oriented Software Development Laboratory (CSE 332S), Data Structures and Algorithms (CSE 247), Seminar: Data Structures and Algorithms (CSE 247R) Logic and Discrete Mathematics (CSE 240), Elementary to Intermediate Statistics and Data Analysis (Math 3200), Multivariable Calculus (Math 233)
- **Accumulative GPA:** 3.6

## WORK EXPERIENCE/ACTIVITIES

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### WashU Developer Student Club

September 2020 – Present

*Lightweight Electronic Medical Record Developer Team*

St. Louis, MO

- Assisted in the development of a free electronic management software to track medical records
- Tested models using Django with factory boy, generated data to be called by the tests.
- Acted as a communications coordinator to reach out to medical clinics and discuss changes in regards to the data dashboard

### Open Source Contribution

October 2021 – Present

*Scientific Computation Methods Repository*

St. Louis, MO

- Participated in Hacktoberfest 2021 by contributing to the Scientific Computation Methods Repository
- Designed a Python code to approximate the definite integral of an input expression using Simpson's Rule
- Used SymPy library to assign symbols and convert string inputs into mathematical functions

## PROJECTS

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### Sudoku Solver

- Developed a backtracking algorithm in Python to solve Sudoku boards of any level of difficulty
- Features a Pygame graphical user interface to display solved and unsolved Sudoku boards
- Running time of a few milliseconds and time complexity of  $O(9^{n^2})$

### Automated Data Entry

- Built a Python bot which automatically uploads imported Excel spreadsheet data into survey forms
- Capable of sending keys, selecting dropdown menu elements, and clicking confirmation buttons
- Achieved a total of 10,000+ rows of data iterated through and submitted

### The Knight's Tour Visualizer

- Implemented a visualizer for any Hamiltonian path of the Warndorff's algorithm for a Knight's Tour
- Components include highlighted visited squares and an animated piece sprite
- Charts an open tour starting from any of the 64 chessboard squares in linear time

## TECHNICAL SKILLS

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**Proficient Languages :** Python, Java

**Familiar Languages :** C++, CSS/HTML, JavaScript, Django, React

**Tools :** Docker, Eclipse, Git, Github, Pandas, Selenium, SymPy, Visual Studio, WebDriver