Eric Yung

314.348.9041 | eyung@wustl.edu | ericyung1.github.io

EDUCATION

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), Multivariable Calculus (Math 233)
- **Accumulative GPA**: 3.7

WORK EXPERIENCE/ACTIVITES

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
- 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
- Uses SymPy to assign symbols and convert string inputs into mathematical functions

PROJECTS

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 1,000+ rows of data iterated through and submitted

ONGOING PROJECTS

The Knight's Tour Visualizer

- Implemented a visualizer for a Hamiltonian path of the Knights Tour backtracking algorithm
- Components include highlighted visited squares, animated chess piece sprite, and redrawn paths
- Charts an open tour starting from any of the 64 chessboard squares in linear time

TECHNICAL SKILLS

Proficient Languages : Python, Java
Familiar Languages : CSS/HTML, JavaScript, Django, React
Tools : Docker, Eclipse, Git, Github, Pandas, Selenium, SymPy, Visual Studio, WebDriver