Edward Zhou

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EDUCATION

University of Maryland, College Park | College Park, MD *Graduated: May 2024*

Bachelor of Science Degree in Computer Science, Minor in Philosophy

Relevant Coursework: Object Oriented Programming I & II, Algorithms, Advanced Data Structures, Compilers, Intro to AI, Human-Computer Interactions, Web Application Development, Data Science

PROJECTS

Moneyball | Python

- Used NumPy and pandas to pull data from the past 10 decades of MLB on how much money each team spent over the past several decades and organize it into sorted data frames
- Incorporated graphing tools, such as matplotlib, ggplot, and seaborne, to visualize the data and neatly display important trends found between teams' expenditures and win rates

League of Legends Data Analysis | Python

- Analyzed data on 10,000 ranked League of Legends matches to predict win rate of a team based on certain factors within the game
- Visualized trends of important winning and losing factors against each other using matplotlib and seaborne to illustrate significance of obtaining them
- Manipulated data from the dataset using pandas and NumPy to create data frames that could be read by row and column

Recidgerator | HTML, CSS, JavaScript, Node, MongoDB

- Implemented MongoDB data clusters and unique tables to represent each users' refrigerator and their ingredients
- Designed a page with HTML, CSS, and JavaScript with UI/UX principles in mind to allow users quick access to any recipes that they can make with what they have
- Used Node and Express servers to allow for transitions between pages through links

WORK EXPERIENCE

Ernst & Young | Tysons Corner, VA *June 2022 – August 2022*

Cybersecurity Technology Consultant Intern

- Collaborated in a team environment with my project engagement team on work with DOTS' FHWA to standardize risk control factors throughout their systems
- Partially automated RFP analysis by training a machine learning model on 10+ existing RFPs to predict probability of EY winning the RFP bid
- Designed an interactive tool through Microsoft Power Platform that incorporated machine learning, UI/UX app design, and data modeling for users to insert their RFP to analyze
- Combined Python, Visual Basic, and Excel knowledge to create an efficient risk filtering system to time spent looking for specific controls that apply to an individual system

UMD Integrated Operations Center | College Park, MD *June 2021 – May 2022*

Student Developer

- Developed and maintained an API that processed alerts and notifications from multiple monitoring tools into DynamoDB using Python
- Collaborated with team members to integrate their code with the API functions to make sure interactions with monitoring tools worked smoothly
- Created unit tests and reviewed code for completed code sections
- Learned and incorporated Agile development for project management
- Monitored UMD network, system, and application infrastructure for their performance and errors

SKILLS

Languages: Java, Python, Ruby, Ocaml, Rust, HTML, CSS, JavaScript, C

Software/Frameworks: Microsoft Excel, Figma, Bootstrap, Vue.js, React, Apache, AWS DynamoDB, MongoDB