

EYAD KAMIL

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Education

College of Computer, Mathematical, & Natural Sciences, University of Maryland

B.S. in Computer Science, Concentration in Data Science

College Park, MD

Spring 2023

Relevant Courses: Introduction to Data Science, Business Statistics, Object-Oriented Programming with Java, Discrete Structures, Linear Algebra, Computer Systems, Advanced Algorithms, Bioinformatics, Organization of Programming Languages

Work Experience

Fannie Mae, Single Family Analytics, Distressed Assets Team

Data Science Intern

Washington, D.C.

June 2021- August 2021

- Collaborated with Loan Review team to enhance and identify issues in their current RShiny Workflow tool
- Created RMarkdown dashboard to analyze the length of time foreclosed properties are held by Fannie Mae
- Designed Tableau dashboards to validate modeled repair costs of foreclosed properties using business checks
- Worked with Enterprise Data team to productionize changes to their tool by updating back-end Oracle & Netezza databases and leveraging Git version control
- Completed two hackathons using logistic regression modeling and text classification to predict mortgage approval based on personal information

Maryland Code Collective

Software Development Intern

Washington, D.C.

January 2021-April 2021

- Developed Python based web scraper to automate process of obtaining web dev contracts from various freelance websites
- Utilized JavaScript and React to develop reusable interactive widgets, used in various Web Dev projects

EDGE Energy

Web Development / Marketing Intern

Beltsville, MD

June 2018-August 2019

- Maintained and developed new sections of company website using WordPress and MySQL
- Improved website's SEO, leading to more visibility on major search engines, such as Google and Yahoo
- Analyzed marketing strategies to attract potential customers, such as social media engagement and strategic web advertising

Projects

Social Trends

Individual

April 2023-Present

- **Description:** A scalable web crawler that aggregates data from TikTok and eventually other social media sites. With this data, users looking to grow their following can analyze social trends and advertisers are able to identify potential influencers to promote their products.
- **Features included:** Dockerized Selenium Web Scraper, allowing for as many instances of scraper to be instantiated based on compute resources. Distributed Task Queue for worker instances to pull jobs from, using Redis. Data is transformed using SQL queries, with larger queries being cached in Redis at a regular interval for performance. Resulting queries are displayed in a dashboard created with React, showing important User and Post metrics.
- **Stack included:** React, NodeJS, Express, Amazon RDS, Python, Selenium, Docker, Redis, PostgreSQL, Git, Linode

vBillboard

Individual

July 2022-Present

- **Description:** A virtual billboard where the current highest bidder is able to display an image of their choice in a banner ad
- **Features included:** Frontend built with Vue, displaying current Billboard, its owner and purchase price. Meta Mask integration to allow for purchase of Billboard. Smart contract to purchase Billboard written using Solidity, allowing Users to purchase Billboard with Ethereum Testnet (Goerli), while keeping track of Ownership, current price and image displayed. AWS Lambda functions to store Billboard images in AWS S3, then pull current Billboard to display on frontend, based on current owner.
- **Stack included:** Vue, AWS Lambda, AWS S3, Solidity, AWS Amplify, Git

Activities

CP Student Investment Group

Member

October 2018-June 2023

- Share strategies, news, and analysis of financial data with fellow student investors
- Analyze effectiveness of trading strategies through statistics and back-testing software
- Educate new members on financial literacy and stock market operations

International Economics and Finance Society

Member

October 2018-June 2023

- Present to peers on the topics of banking, global markets, and investments
- Allow expert guest speakers to inform members of real world applications of Economics and Finance software

Skills and Interests

Skills: Advanced in Java, JavaScript, Python, C, SQL, R, Tableau, Web Scraping, React, NodeJS, Full Stack Development, AWS

Interests: Investment and Portfolio Management, Economics, Skateboarding, and Intramural Sports