

EYAD KAMIL

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Education

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

College Park, MD

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

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

Washington, D.C.

Data Science Intern

June 2021 - August 2021

- Collaborated with Loan Review team to enhance and identify issues in their current RShiny Workflow tool
- Authored RMarkdown with year-to-date analysis on length of time foreclosed properties are held by Fannie Mae, on a county level view
- Designed Tableau dashboards to validate modeled repair costs of foreclosed properties using business checks.
- Worked with Enterprise Data team to productionalize changes to their tool by updating back-end Oracle & Netezza databases and leveraging Git version control
- Completed two hackathons providing exposure to logistic regression modeling and text classification

Maryland Code Collective

Washington, D.C.

Software Development Intern

January 2021-April 2021

- Developed Python based Web Scraper, used on various freelance websites (ex: Upworks.com), to automate process of obtaining Web Dev contracts, based on criteria provided by the developers
- Utilized JavaScript and React to develop reusable interactive widgets, used in various Web Dev projects

EDGE Energy

Beltsville, MD

Web Development / Marketing Intern

June 2018-August 2019

- Maintained and developed new portions of company website using WordPress and MySQL
- Advanced 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

Sanitize

July 2023-Present

Individual

- An AI content moderator, where users upload media and explicit content is automatically filtered.
- Features include: Dockerized microservice architecture. Authentication using OAuth2.0 and MongoDB as a User DB. Rate limiting. Auto-scaling SageMaker inference.
- A Twitter bot, automating translation of media from any source to target language using entirely web-scraping
- Typescript, Redux, NodeJS, Express, Redis, SageMaker, Docker, EC2, Selenium, BullMQ, Whisper, GPT 3.5, Python, Git

Social Trends

April 2023-Present

Individual

- A scalable Web Crawler that aggregates data from TikTok and eventually other social media sites. With this data, users looking to grow can follow social trends, and advertisers would be able to identify potential influencers to promote their products.
- Features include: 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.
- React, NodeJS, Express, Amazon RDS, Python, Selenium, Docker, Redis, PostgreSQL, Git, Linode

Activities

CP Student Investment Group

October 2018-June 2023

Member

- Share strategies, news, and analysis of financial data with fellow student investors
- Analyze effectiveness of trading strategies through statistics and back-testing software

International Economics and Finance Society

October 2018-June 2023

Member

- Educate 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: TypeScript, React, NodeJS, Express, Redux, Python, C, OpenMP, OpenMPI, SQL, R, Tableau, Selenium, AWS

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