Harrison King

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EDUCATION

Texas Tech University — Lubbock, TX
Bachelor of Science in Computer Science; Minor in Mathematics — *Aug. 2019 – May. 2024*

EXPERIENCE

NemaLife Inc. — Lubbock, TX
Data Analyst — *May 2023 - Present*

- **Data collection**: Utilized machine learning tools to collect data and properly identify its trends.
- **Throughput Calculator**: Measures predicted data analyst teams performance across 3 months in advance. Includes feature to add projects for workload speculation. Built upon API calls and manipulation of data through the pandas library.
- **Receipt parser**: Acts as an inventory analyst, to assess the relevance of receipts on a monthly basis and track the prices of the products deemed relevant. After relevance and parse is finished, the product and updated prices are re uploaded to inventory database. Flags products that have increased significantly in price.
- **Meetings**: Attended weekly meetings with data analyst teams to go over workflow for upcoming weeks and bring up concerns/problems with ongoing projects. Consisted of collaboration with lab team to discuss optimal conditions for ease of data collection.
- **Training**: Trained new data analyst on software that was relevant to the role and familarized them with the office space.

Public Defender Website — Lubbock, TX
Front-end/Back-end Developer; Contract — *Oct 2023 - Present*

- **Contact**: Service for client communication. Involved field validation and error catching.
- **Server**: Set up server through Apache for transfer of files once client is satisfied with front-end of website
- **Design**: Front-end built using bootstrap and appropriate HTML class manipulation through CSS

Codeforces Hackathon — -
Participant — *Summer 2020 and Summer 2021*

- **Problem Sets**: Presented with programming problems and solved using Python and Java. Chose appropriate languages to solve problems while assessing the most relevant data structures and algorithms to be implemented. Assisted with problem solving skills in a timed environment to perform optimally.

PROJECTS

- **Algorithmic Trading Bot**: Bot that buys/sells off of stock market based upon tested algorithms. Implemented through Alpaca's API stock market service. Returned an average 2 percent ROI.
- **Mimic Lottery Site**: Website that mimics the drawing, selling, purchasing of lottery tickets including admin functionality. Linked to relational SQL database, includes appropriate keys and tables. Included a global timer built using ReactJS that would fire a PHP script for lottery ticket drawings.
- **Syntax Parser**: Created a syntax parser to parse through an imperative language, properly identifying valid tokens.
- **Mock Airport Database**: Relational database built in SQL containing tables mimicking proper tables given the context. Encryption for specific attributes considered and implemented. Proper joins and normalized tables acted as a means to reduce database bloating.

PROGRAMMING SKILLS

- **Languages**: Python, Java, C, PHP, SQL, Javascript   **Technologies**: Apache, Pandas, REST, GraphQL