Anh Khoa Nguyen

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Education

University of Houston — Houston, TX
Bachelor's in Computer Science, Minor in Mathematics | GPA: 3.7 — Aug 2022 – Present

Houston Community College — Houston, TX
Associate's in Computer Science — Aug 2020 – May 2022

Relevant Coursework: Software Design, Data Structures and Algorithms, Operating System, Database Systems, Computer Architecture

Projects

Zoo Database Management | *Javascript(Node.js),React, mySQL, Microsoft Azure* **Source code**

- Developed a comprehensive full-stack website utilizing React.js, Node.js, HTML/CSS, and JWT security, with a MySQL database hosted on Azure, delivering seamless user experiences for a zoo-themed platform.
- Implemented interactive features including ticket booking, food/souvenir browsing, and map exploration.
- Designed distinct admin levels with tailored access privileges, facilitating efficient management of zoo operations such as employee oversight, inventory control, scheduling times and income sources reporting.

Smart+ Fuel Rate | *Python(Django), Javascript(React), mySQL, HTML/CSS* **Source code**

- Developed a full-stack Fuel Rate website utilizing React.js and HTML/CSS for the frontend, and Django (Python) for backend functionality and JWT for security, with PostgreSQL database management.
- Implemented user authentication features allowing users to login and access personalized fuel rate history, and purchase fuel securely.
- Integrated access controls and admin functionalities enabling price editing and data management for seamless administration of the platform.

My Python Interpreter | *C++* **Source code**

- Developed a Python Interpreter in C++ adhering to Python syntax and evaluation semantics on Linux cloud server.
- Implemented dynamic interpretation capabilities, supporting variable assignments, arithmetic expressions, if/else control statements, and function definitions, including recursion and lambda calculus.

Predicting Diabetes | *Python* **Source code**

- A data science repositories to predict whether the patients have diabetes based on over 10 factors with 90% overall accuracy.
- Constructed 3 models of KNN, Random Forest, and Naive Bayes with 5+ graphs, matrices and reports for analysis and visualization.
- Offering valuable insights for model selection and data-driven decision-making through optimization.

Skills

Languages: Python, C++, JavaScript, SQL, HTML/CSS, R
Frameworks & Libraries: React, Express, Django, Microsoft Azure
Developer Tools: VS Code, Visual Studio, Git, Github