Han Bui

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RELEVANT PROJECTS

Personal Project – Austin, TX   Summer 2020 - Present
- *Bug Tracker* – A web application that tracks the progress of tickets of bugs or requests from the user within the project. Structured MVC design pattern while implementing a backend API using PHP based on a designed relational database (MySQL). Developed security and authentication with login & password recovery system. The application implemented Role Base Access Control for authorization. Each role has different permissions and views depend on the user when perceiving the website.
- *Appointment Management System (AMS)* – Python Django web application using MVT pattern with scheduling system between multiple appointors and appointees. Applied model migration and routing within the Django framework. Authentication & authorization for staffs and customers for access restrictions.

Software Design, University of Houston – Houston, TX   Summer 2020
- *Fuel Quoter* - A program that lets a client request and generates a fuel quote based on location and the number of gallons requesting. Implemented MVC model. The user/client can edit profile, password, and request password recovery. User clients can also see fuel quote history. Led a team of 3 developers and applied Agile methodology in collaboration between teammates and utilized source control on GitHub platform. Implemented unit testing and provided code coverage reports using PHPUnit/XDebug.

School Projects, University of Houston – Houston, TX   Fall 2018 - Spring 2020
- *Data Analytics* – Performed feature selection to clean and reduce the dimensionality of the data for business understanding; built and compared models & parameters to see the trend and predicting future profitable products in Python; gained knowledge in business decision making.
- *Multiprocessing* – Stimulated computer operating systems by implemented core scheduling with multiprocessing technique using queue, linked-list data structures, and object-oriented programming in C++; gained knowledge of system's ability to support more than one processor and the ability to allocate tasks between them.

EXPERIENCE

University of Houston – *Teaching Assistant*; Houston, TX   June 2020 – January 2021
- Assisted in the creation of assignments, managing attendance records, and various daily tasks for over 200 students. Evaluated assignments and provide feedback on how to improve students' performance within the course. Debugged Python code as a statistic language for machine learning techniques. Organized weekly one-on-one mentoring to help student catch on with the course's material.
- Assisted in building weekly feedback forms that allow professors to better engage students in the course. Cooperated with other Teaching Assistants and Mentors to improving the course's quality. Promptly responded to general inquiries from members, staff, and students.

Samsung Austin Semiconductor (SAS) – *Shift-Lead Assistant;* Austin, TX   November 2016 – January 2018
- Operated Scan Electron Microscope (SEM) machine to detect defects on microprocessors for 32, 22, and 14 nm technologies. Analyzed failure tests on electronic devices to improve company product yield.
- Managed team of 4 employees: delegated found defects to employees based on expertise and answered questions. Trained 6 new employees to operate Scan Electron Microscope. Orchestrated meetings for delivering information on new devices and discussing new occupational procedures.

Caisan Technologies - IT Support; Round Rock, TX   June 2015 – May 2016
- Troubleshot and resolved hardware and software problems proactively as identified by users; Created Company server network by connecting all company computers to the main server.
- Translated G and M Code for Computer Numerical Control (CNC) machine to assemble equipment and metal products.

ACTIVITIES & AWARDS

University of Houston – *Computer Science Peer Mentor*   Summer 2020
- Provided group and one-on-one mentoring for more than 50 students in Data Science
- Hosted meetings for weekly Q&A section regard to class structure and format

Phi Theta Kappa – *Member*   Spring 2018
- Assisted disabled population of Austin during Cycling Special Olympics and distributed food to the homeless population of Austin
- Engaged in organized discussions about social difficulties, such as social justice and prejudice

Samsung Austin Semiconductor (SAS) – *Employee of the Quarters*   2016 - 2017
- High Performances in 4 consecutive quarters

EDUCATION

Bachelor of Science in Computer Science
University of Houston – Houston, TX   December 2020
     GPA 3.83

RELEVANT COURSEWORK

Data Science	Computer Operating System	Computer Org. & Architecture
Algorithms & Data Structures	Software Design	Database