**Han H. Bui**

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[http://hanbui.me](http://hanbui.me/)

**OBJECTIVE**

Seeking full-time internship position to develop web technology, programming, communication, and teamwork skills while putting acquired skills to the test

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**EDUCATION**

**Bachelor of Science in Computer Science**

University of Houston – Houston, TX December 2020

GPA 3.8

**RELEVANT COURSEWORK**

Data Science Computer Operating System Computer Org. & Architecture

Algorithms & Data Structures Interactive Computer Graphics Discrete Mathematics

Database Software Design

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**RELEVANT PROJECTS**

**Personal Project** – Austin, TX Summer 2020

* ***Bug Tracker*** – PHP Website. A collection of tickets of bugs and requests. The application implemented Role Base Access Control using PHP API (Admin, Project Manager, Developer, Submitter). Developer and submitter user will able to track the progress of each ticket they have been assigned or submitted. Admin will oversee all the projects and tickets. Project manager will oversee the project and ticket they are in charge of. Each user will perceive different views based on their role and permissions.
  + Used MySQL database
  + Built an PHP full-stack website from ground up using MVC (Model View Controller) structure
  + Implemented Role Based Access Control for security and authentication
  + APIs applied (PDO, Mysqli, PHPMailer, MakePDF, RBAC) to enhance application functionalities
  + Utilized Bootstrap for frontend implementation
* **Scheduling System** (In-Progess) – Python Django web application using MVT pattern with scheduling system between multiple appointors and appointees. Applied model migration and routing within the Django framework. Currently implementing authentication and authorization.

**Software Design**, University of Houston – Houston, TX Summer 2020

* ***Fuel Quoter*** - A program that let a client to request and generate a fuel quote based on location and the number of gallons requesting. User/client can edit profile, password and request password recovery. User client can also see the fuel quote history. Applied Agile methodology in collaboration between teammates and utilized source control on Github platform. Implemented unit testing and provided code coverage report using PHPUnit/XDebug.
  + Three tiers design (MVC)
  + Used MySQL database
  + Frontend : Bootstrap, templates
  + Unit Testing (Code Coverage tools)
  + Generate Code Coverage Report using PHPUnit / XDebug

**School Projects**, University of Houston – Houston, TX Fall 2018 - Spring 2020

* ***Multiprocessing*** – Stimulated computer operating systems by implemented core scheduling with multiprocessing technique using queue and priority queue; gained knowledge system’s ability to support more than one processor and the ability to allocate tasks between them.
* ***Storytelling Project*** – Analyzed statistics of hurricane Harvey’s affected Houston populations to provide solutions; performed data cleaning, manipulation, mining, and visualization using Python via Jupyter Notebooks; gained knowledge of many clustering methods
* ***Data Analytics*** – Performed feature selection to clean and reduce the dimensionality of the data for business understanding; built and compared models & parameters to see trend and predicting future profitable products; gained knowledge in business decision making
* ***Library Book Management*** - Designed program that manages a virtual library of books using C++, gained understanding of linked lists, dynamic programming, sorting algorithms, debugging, and command parsing.
* ***Queuing System -*** Designed queueing system in C++ for virtual restaurant to minimize the time between customer waiting and serving; gained knowledge of differences between queue and priority queue.

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**COMPUTER SKILLS**

* **Programming Languages:** PHP, MySql, C#, Oracle Sql, C/C++, Python, Unix, HTML, CSS**,** MATLAB, R, Arm Assembly, Typescript
* **Software:** Microsoft Office, XCode, Anaconda, SQLDeveloper, MySQL, NetBeans, uVision, Jupyter Notebook, RStudio, Atom, Weka, Unity, Composer, MongoDB, Git/Github
* **Operating Systems:** Windows, Mac OS

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**EXPERIENCE**

**University of Houston** – *Teaching Assistant*; Houston, TXJune 2020 – Present

* Provide assistance in the creation of assignments, managing attendance records, and various daily tasks for over 200 students
* Evaluate assignments and provide feedback on how to improve students’ performance within the course
* Resolve all student complaints in accordance with departmental and school guidelines
* Consult and provide feedback on how to improve students’ performance within the course
* Organize weekly one-on-one mentoring to help student catch on with the course’s material
* Debug students' Python code as a statistic language for machine learning techniques
* Cooperate 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 – December 2017

* Operated Scan Electron Microscope (SEM) machine to detect defects on microprocessors for 32, 22, and 14 nm technologies.
* Managed team of employees: delegated found defects to employees based on expertise, and answered questions
* Analyzed failure tests on electronic devices to improve company product yield
* Trained new employees to operate Vertical Scan Electron Microscope (VSEM) and SEM
* Orchestrated meetings for delivering information on new devices and discussing new occupational procedures

**Caisan Technologies** – *IT support*; Austin, TX June 2015 – May 2016

* Created company server network by connecting all company computers to main server
* Translated G and M Code for Computer Numerical Control (CNC) machine to assemble equipment and metal products
* Verified quality control process via Microsoft Excel and assisted with product inventory checklist
* Troubleshot and resolved hardware and software problems proactively as identified by users

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**ACTIVITIES & AWARDS**

**Phi Theta Kappa** – *Member* Spring 2018

* Assisted disabled population of Austin during Cycling Special Olympics, and distributed food to homeless population of Austin
* Engaged in organized discussions about social difficulties, such as social justice and prejudice

**Vietnamese American Community at Austin Texas** – *Event Organizer* Spring 2018

* Led group of seven volunteers to raise money for impoverished Vietnamese community during Lunar New Year event

**Samsung Austin Semiconductor (SAS)** *– Employee of the Quarters*  2016 - 2017

* High Performances in 4 consecutive quarters