

Jeffrey Moreland

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SUMMARY

Erudite **4.0 GPA** college senior pursuing a bachelor's degree in computer science with an interest in quantum computing. Excellent unit testing and communication skills with 5 years of programming experience. Highly adaptable with the ability to full stack develop or work on an Agile development team.

SKILLS

Programming: C# ASP.NET, Visual Basic for Applications (VBA), C++, Python, Hyper Text Markup Language (HTML5), Cascading Style Sheets (CSS3), General-Purpose Programming Language (PHP), JavaScript (JS), JQuery, MS SQL Server (Security, Query Optimization, High Availability), Language-Integrated Query (LINQ), Extensible Markup Language (XML), JavaScript Object Notation (JSON), Arduino (C/C++ based), LabVIEW (Object Oriented), MATLAB, Canvas JS, Bash

Software: Advanced Microsoft (MS) Visual Studio (Regression Testing, Unit Testing, GitHub Integration & Staging), SQL Server (SSRS, SSIS and SSAS), Excel (Pivot Tables, Solver, VBA, Macros), Word, PowerPoint, Advanced Adobe Photoshop (Batch Cropping, Touch Ups, Layering, Non-Destructive Editing), Illustrator (Clipping Masks, Layering, Logo Creation), Audition (Noise Reduction, Multitrack Editing, Crossfading), Jupyter, MS SharePoint, Power BI, MS Projects Online

Principals: Full Stack Development, Test Driven Development, Unit Testing, Regression Testing, Responsive Design, Agile Development, Scrum Development, MVC (Model View Controller), MVP (Model View Presenter), AJAX (Asynchronous JavaScript and XML), RESTful (HTTP & JSON), SOAP, Bootstrap, Tailwind.css, Parallax.js

RELEVANT EXPERIENCE

Belgrade Heroes, Houston, TX

March 2019 – Current

Co-founder/Chief Software Developer

- Full stack web developer for several companies both in the USA and foreign.
- Consistently recognized by clients for knowledge of both European and American privacy laws, professionalism, and overall service.
- Develop, troubleshoot, launch, and maintain an array of online websites for clients.

University of Houston, Houston, TX

September 2021 – Current

Student Research Assistant

- Programmed a DNA chromatin loop classifying machine learning algorithm pipeline in python.
- Manipulated and analyzed unstructured data sets for cell line GM12878.
- Prepared cell line GM12878 dataset for machine learning using feature scaling, synthetic minority oversampling technique, and dataset structuring.
- Fitted cell line GM12878 dataset for machine learning algorithms such as Decision Trees, Random Forest, Logistic Regression, K-Nearest Neighbor, Support Vector Machines (with radial basis kernel), Artificial Neuron Network also known as Deep Learning, Naïve Bayes, and Gradient Boost.

University of Houston, Houston, TX

March 2021 – Current

IT Project Management Office Student Worker

- Designed and developed a MS SharePoint website for the IT Project Management Office.
- Utilized front-end web development using HTML, CSS, jQuery, Bootstrap, and Font Awesome.
- Designed and implemented a Power BI report and dataset to dynamically update on the home page.

Applied Optoelectronics (AOI), Sugarland, TX

October 2017 – June 2019

Software Developer

- Saved AOI an estimated million dollars, within a years' time, by automating a quality control process
- Assembled a DOS shell program to rename and sort quality control pictures that was used 4,307 times, averaging 40 uses per day, over 109 days which led to a reduction in time spent by 91%
- Total savings was an estimated 98 hours, a calculated value of \$3,445.31 USD of overhead savings
- Built a digital inventory management system (IMS) to upgrade a paper based IMS for chemicals which prevented stock from running out by tracking, estimating, then alerting staff to order when stock is low

Amazing Wristbands, Houston, TX

February 2016 – October 2017

Application Developer

- Created an excel program to automate a production line shipping process using a box-sizing algorithm that allowed for DIM optimization which saved up to 40% in shipping costs per customer
- Integrated Excel's Visual Basic for Applications (VBA) with screen scraping macros to automate data input
- Performed website maintenance and troubleshooting using regression testing and bug reporting

Saigon Tattoo, Houston, TX

May 2014 – March 2015

Chief Information Security Officer

- Completed several test driven projects using a micro-controller prototype coded in Arduino
- Identified and resolved brute force password security gaps by implementing an automated test that distinguished computers from humans (CAPTCHA) which strengthened website software security
- Installed, configured, and maintained security software then trained personnel in good cyber-security habits

EDUCATION**University of Houston-Downtown, Houston, TX**

August 2019 – December 2021

Bachelor of Science in Computer Science Candidate

4.0 GPA**Houston Community College, Houston, TX**

Fall 2013 – Spring 2014

Associate of Science in Chemical Process Technology Graduate

University of Houston, Houston, TX

Fall 2011 – Spring 2013

Bachelor of Science in Chemical Engineering Candidate

Study Abroad Program, Mexico, Cuernavaca

Summer 2011

- Studied Spanish as a second language at the speed of celeritas

Study Abroad Program, Germany, Dusseldorf

Summer 2006

- Sedulous study of German as a second language

RELEVANT PROJECTS**University of Houston: Downtown, Houston, TX**

Spring 2021 – Spring 2022

Vice-President of the ACM Student Chapter

- Organized and taught workshops such as a Recursive Sudoku Solver in ASP.NET C#, a Tic-tac-toe Recursive Minmax AI in React JS, or a Starter Store Database in MS SQL Server.
- Attended hackathons and conferences with fellow members to promote ACM.

University of New Haven, New Haven, CT

Fall 2005 – Spring 2006

President of the AIChE Student Chapter

- Organized events, increased participation of members, and maintained a PHP forum for members
- Ventured for the AIChE Chem-E-Car competition which included writing a grant
- Leader of the subtilitas fire emergency response robotics team (robotics artificial intelligence)

Houston Community College, Houston, TX

Fall 2013 – Spring 2014

- Leader of a five-member ethanol pilot plant operations team

VOLUNTERRING

Volunteer at Friend's For Life no-kill Animal Shelter

May 2016 – 2020