

TAI H. DOAN

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OBJECTIVE

To advance my career with a leading organization that will utilize my extensive software and firmware engineering knowledge while also allowing me to develop further as a professional

CORE COMPETENCIES

- Data Structures & Algorithms
- Agile Project Development
- Websites and Web Applications
- SQL Database Programming
- Linux
- Computer Architecture

PROFESSIONAL AND PROJECT EXPERIENCE

FREELOCK COMPUTING, SEATTLE, WA, JANUARY 2021 – CURRENT

SOFTWARE DEVELOPMENT ENGINEER

- Design and develop multiple web sites, using Drupal and WordPress Content Management System, and PHP language for back-end applications.
- Analyze customer needs to determine technical requirements and deliver the best solution for the business within time and cost constraints.
- Modify code of existing applications to correct errors, implement new features and optimize software performance and scalability.

BELLMONT CABINETS CO., SUMNER, WA, JUNE 2019 – MARCH 2020

SOFTWARE ENGINEER INTERN

- Tasked with analyzing shop-worker needs, and designed and developed four web applications used in the company's operations with ASP.NET MVC framework, and languages such as C#, HTML/CSS, and JavaScript.
- Responsible for creating, updating, and querying data in existing SQL databases utilized by data visualizations and tools.
- Composed and contributed to engineering documentation such as acceptable use policy, project status reports, and workflow procedures. Managed IT department's documents using Microsoft SharePoint.
- Demonstrated a comprehensive knowledge of software engineering best practices and software project lifecycles with Jira Project Management software.
- Practiced professional engineering routines in an e-commerce and manufacturing environment.

SEATTLE PACIFIC UNIVERSITY, SEATTLE, WA, SEPTEMBER 2019 – JUNE 2020

SOFTWARE LEAD ENGINEER – GROBOT (Senior Capstone Project)

- Partnered effectively with other engineering students to prototype a fully-automated gardening system.
- Lead and managed the software development process including Researching, System Design, Implementation, Testing and Deployment.
- Authored code on PSoC (C language) to control four motors and two solenoids, read data from four electronic sensors, and transfer data over TCP communication protocol.
- Constructed a UI web application using ASP .NET MVC framework that managed garden information and health reporting, and set up real-time maintenance schedule with SQL database and ThingSpeak server.

SEATTLE PACIFIC UNIVERSITY, SEATTLE, WA, APRIL 2019 – JUNE 2019

SOFTWARE DEVELOPER – BIKEGUARD (Engineering Project)

- Conceptualized and built a low-power consumer device to prevent bike theft; this was achieved by sending notifications and GPS location of the bike to the owner using narrow band signal.
- Accountable for developing embedded system to collect the analyzed data from electronic sensors.
- Designed an algorithm to effectively send messages to the online server via C.
- Facilitated the building of a UI app to get and display data from the server with Visual Studio and C++.

NB-IoT HACKATHON, SEATTLE, WA, MARCH 2019

SOFTWARE DEVELOPER – PARKING TRACKER (Hackathon Project)

- Headed the design of a system to check location and occupancy of parking spots, and keep track of parking time by sending notification over text messages.
- Formulated an embedded system to collect and analyze data from electronic sensors, and utilized the knowledge of Narrowband – Internet of Things technology.

Additional Experience

IEEE Officer – SEATTLE PACIFIC UNIVERSITY, SEATTLE, WA, AUGUST 2019 – JUNE 2020

Athlete Event Staff – SEATTLE PACIFIC UNIVERSITY, SEATTLE, WA, AUGUST 2018 – DECEMBER 2019

Math Tutor – HIGHLINE COLLEGE, DES MOINES, WA, DECEMBER 2015 – JUNE 2017

EDUCATION AND CREDENTIALS

BACHELOR OF SCIENCE (B.S.) IN COMPUTER ENGINEERING, 2020

Seattle Pacific University, Seattle, WA

GPA: 3.60

TECHNICAL SKILLS

Languages: Python, C++, C#, HTML/CSS, JavaScript, PHP

Technologies: ASP.NET, MVC, Bootstrap, jQuery, Drupal, Agile/Scrum, SQL, Operating Systems, Git, CI/CD, Networking Protocols, Jira, Office365 Suite

Devices: PSoC, Arduino, Oscilloscope

Other: System Design, Hardware/Software Testing, Electrical Circuit, Soldering, Computer Build/Upgrade

ADDITIONAL INFORMATION

Languages: English, Vietnamese

Interests: Hiking, soccer, snowboarding