

Eric Hsueh

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Education

Bachelor of Science with Specialization in Computing Sciences

University of Alberta, Edmonton, Alberta / 09.2013 – 05.2018

Work Experience

Nexone Programmer / Montreal, Quebec / 05.2017 – Current

As a small company with big aspirations, my role in NexOne tends to be very diverse. In order to allocate more of a developer's time towards bug fixes and application programming, NexOne needed a way for the marketing team to quickly upload new pages onto their website. My task was to learn umbraco from scratch and help maintain their website. Using CSS, HTML, Javascript, Azure, and SQL knowledge, I created a website that the marketing team can quickly access and change the contents.

Our main app NexOne Agent, allows Real Estate agents or brokers to upload, sign documents, and create forms. There are a couple aspects of NexOne Agent (NOA) that I'm in charge of. First and foremost, my main role in regards to the application is to handle bug tickets and story tickets. Each sprint I work through a couple of tickets in order to keep the application well maintained and push new features and functionalities. The second role with NexOne Agent I am often tasked with is any data correctional issues. Through SQL and smart use of Queries, I handle any issues in regards to the correction of data. The third role is taking care of the DevOps side of the application. Through Teamcity & Azure I monitor each deployment as well as the status of my tickets to assure that each successful iteration of the application succeeds with no noticeable downtime to our end users.

Due to the nature of the small company, I also help out with our support team. I become the go-to person for anything involving deeper investigations.

NCHC, High Performance Computing Internship / Taichung, Taiwan / 07.2015 – 08.2015

The people at NCHC wanted a way to 3D print off certain parts of the brain. My goal was to create a program in which you could segmentate multiple portions of a MRI scan and create that as a 3D model. I found multiple Python packages and integrated them together to make a seamless program that could read MRI scans, segmentate the image, and be printed off by a 3D printer. The result became 3D printed models of the human body for doctors to be able to study.

Team Lead, Lifeguard, Instructor / YMCA Surrey, YMCA Edmonton / 07.2011 – 05.2018

The YMCA of Edmonton required an experienced lifeguard swim instructor to help coordinate the chaotic swimming lessons. I trained new staff on the proper procedures, helped instructors with special needs children, kept records up to date, as well as maintained the flow of communication between the managers and instructors. In doing so I created extremely efficient and organized lessons for both the instructors as well as students.

Skills

Fluent in English, Mandarin, and Taiwanese. Basic Japanese and Basic French
Programming languages from most familiar: Python, JavaScript, HTML, SQL, Java, C#, C, C++
Comfortable with Windows and Linux

Volunteering Experience

King's University Programmer / Edmonton, King's University / 05.2016 – 07.2016

There are a bunch of old physics simulation tools that were originally programmed in Flash. Due to the desire to have such items on the mobile phone, I was tasked to recreate it using Javascript. The simulator created is of a particle in an electromagnetic field in which the user is able to measure the forces acted upon the particle and experiment with the properties that is unique to the particle.

Hospital Gift Shop Customer Service / 11.2013 – 05.2018

The hospital gift shop is a high patient traffic area in the hospital. Therefore they require volunteers to interact with the patients as they walk around and assist them with anything they need. I took the role of helping new volunteers get acquainted with the store, as well as helped the special needs people find their desired items.

Projects

Edmonton Veterinary Electronic Medical Records

Alberta Helping Animals Society is a charity organization which allows poor owners to have proper treatment for their pets. They were running out of space to keep the records for all of their patients. Therefore they enlisted our help to make them an Electronic Medical Record or EMR. I worked as a team, by using user stories and agile sprint practices, managed to create an EMR using Javascript, HTML, and Ember. Now they have a fully functional EMR that can keep track of all the patient's medical records, as well as make new appointments.

Personal Website Project

Limited space on a resume means that I need to come up with a creative way to express myself to employers. Due to my multitudes of experiences and projects, I came up with a creative way to express myself. My personal website <https://erichsueh.github.io/> is a HTML, CSS, Javascript focused website with the experimental idea of “no loading” between different pages. The end result is a fully functional website with my experiences and projects laid out clearly.

Robotics Delivery Bot Project

With the robotic roombas that my group has been programming, we were tasked to find a use for them in the real world. Therefore I thought up a system in which the robot could make a delivery from room to room without touching the robot. All the user has to do is click on a position of the map and the robot will autonomously arrive at that location. I made use of Simultaneous Locating and Movement in order to create the waypoints that the robot would run to. Thereby showing the viability of such a robot in a real world scenario.