

# WILBUR LIU (E.I.T.)

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## Education and Skills

<b>Northeastern University (Seattle)</b>	<b>Master Degree of Computer Science Align</b>	Expected graduation date: Dec 2022
<b>Stony Brook University</b>	<b>Master Degree of Mechanical Engineering</b>	December 2017
	<b>Bachelor Degree of Mechanical Engineering</b>	May 2016
<b>Status:</b> U.S Citizen looking for 2021 SDE Internship/co-op		<b>Overall GPA:</b> 3.67/4.00
<b>Computer Skills:</b> Java, PLC, Python, JavaScript, Ruby on Rails, html, css, ROS, Matlab, Autocad, CNC, MS office.		

## Academic Projects

<b>ServiceNow Hackathon</b>	Aug 2020
<ul style="list-style-type: none"><li>Participated in a Hackathon hosted by ServiceNow and Northeastern University. Utilized ServiceNow platform technology such as flow designer to automate work process. Practiced role access control to provide security and privacy for our app.</li><li>The goal of our app is to solve campus health tracking issues. Admin role have access to CRUD the database. General user only have access to their own health data and course related health data.</li><li>Created relational database that can be referenced when generating health report. User table have courses field that reference a list of courses that he/she registered. When a student or staff checks people in to campus, their temperature is automatically saved to a temperature tracking table which saves user id as a reference when we generate report.</li><li>User are able to open 'My report' to see their health status, include temperature tracking within past dates, their health status etc. JavaScript is used to create interactive filters for current user and their courses check in status. <a href="#">Source file</a></li></ul>	
<b>Budget App</b>	Aug 2020
<ul style="list-style-type: none"><li>Used JavaScript to create an interactive page that could calculate and display your budget. Practiced OOD principle while designing the data structure for both income and expense. <a href="http://wilbur-budget.herokuapp.com/">http://wilbur-budget.herokuapp.com/</a></li><li>Encapsulated budget data structure into budget controller and allow UI controller object to use this function to update the web page. Used DOM manipulation inside UI controller to dynamically changing the html and css file.</li></ul>	
<b>DisabilityIn Innovation lab</b>	July 2020
<ul style="list-style-type: none"><li>Facilitated two teams during innovation lab hosted by Google at DisabilityIn annual conference.</li><li>Guided team's member in weekly meeting and monitored process. Both teams made to top 2 position.</li></ul>	
<b>CodeGym Game Project</b>	May 2020
<ul style="list-style-type: none"><li>Used Java to write a 2048 game. Created methods that generate a 2 or 4 value tile from random location. Utilized game engine API from CodeGym to implement the size and color of the tiles and scene. Published on <a href="https://codegym.cc/projects/apps/21689">https://codegym.cc/projects/apps/21689</a></li><li>Implemented OOD principle for compressing row, merge two tiles that has same value and rotating the matrix that could achieve the sliding effect when command on keyboard is pressed.</li></ul>	
<b>Custom Website</b>	Jun 2017
<ul style="list-style-type: none"><li>Used Ruby on Rails to develop a restaurant introduction website. <a href="https://tao-restaurant.herokuapp.com/">https://tao-restaurant.herokuapp.com/</a></li><li>Used HTML and CSS to decorate the front end of the website. Deployed the website on AWS.</li><li>Focus on concise and standing out welcome page.</li></ul>	

## Experience

<b>Solar Turbines Field Service Representative (Multiple Locations)</b>	May 2018-Present
<ul style="list-style-type: none"><li>Designed a PLC program that controls the process gas cooler using Logix 5000. Connected to PLC and validated the code.</li><li>Replaced multiple Taurus 70 engines, retrofitted two Centaur 50 engine and commissioned a Titan 250 Engine.</li><li>Perform routine maintenance on varies customer site. Things include but not limit to: engine oil/fuel filter change, parts replacement regarding on their life expectancy, PLC logic verification, configuration and troubleshooting.</li></ul>	
<b>Robotic Research (Stony Brook, NY)</b>	Feb-May 2017
<ul style="list-style-type: none"><li>Getting familiarize with ROS and Linux system and its protocol. Applied knowledge of dynamic and trajectory planning to develop a mathematical model to calculate positions of arm joint for Baxter Research robot.</li><li>Used Matlab to process data and minimized the error between actual data and our model under 5%.</li></ul>	

## Honors & Achievement

DisabilityIN Advisory Council Vice Chair	Dec 2018-Present
DisabilityIN Marketing Committee Vice Chair	Nov 2018-2019
INROADS Scholar	March 2017-2018