

Ian Littke

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Work Experience

FAITHLIFE

Bellingham, WA

Full Stack Software Developer

2018–2020

- Developed new web features using **C#** and **React** and **MVC WebForms**
- Created and maintained new RESTful API routes as well as updating old routes
- Incorporated new tests as API routes were created/updated
- Refactored legacy code for internal tools to utilize API routes instead of straight database calls
 - One project decreased page load time by 20x by selectively caching and fetching data

POPULUS GROUP, LLC for MICROSOFT

Redmond, WA

Software Test Engineer (I, II, III)

2010–2015

- Collected microphone/speaker data for statistical analysis on a myriad of OEM devices including laptops, mobile devices, all-in-ones, and accessories to ensure they were Cortana ready as well as modeling the device for automated synthetic testing
- Designed, developed, documented, and maintained in-house **C#** recording tool
 - Interfaced with Xbox 360, Xbox One, Win10 devices, and a **Lua**-controlled gantry robot
- Rewrote nightly audio test infrastructure from batch script to **C#**, reducing runtime by 50% while increasing test data 3x
- Created a **.NET** webpage with Excel pivot tables to show detailed information on automated tests
- Implemented other tools for daily accuracy testing including Cortana/Xbox keyword spotter

Technical Skills

Languages	C#	Javascript	Python	(MS MY) SQL
Frameworks	React	MCV WebForms	Tensorflow	WPF
Other Interests	Deep Learning	NLP	Recording & Mixing music	

Education

Western Washington University

Bellingham, WA

Bachelors of Science: Computer Science

2015 – 2017

Edmonds Community College

Lynnwood, WA

Associate of Science: Mathematics focus

2014 – 2015

Art Institute of Seattle

Seattle, WA

Associate of Applied Arts: Audio Production

2007 – 2009

Projects of Interest

WESTERN WASHINGTON UNIVERSITY

Reinforcement Learning Project

2017

- Group project to use machine learning models to teach a rigid-body simulation in Unity
- Utilized **ml-agents** framework to tie Unity with **tensorflow**

WESTERN WASHINGTON UNIVERSITY

Flight Planner

2017

- Group project for the Whatcom Civil Air Patrol (CAP), written in **C#**
- Allows CAP to easily create Garmin G1000 navigation files
- Project information is stored at github.com/CIOS-Digital

BoxTop Software

Website Rewrite

Present

- Modernizing website from static pages to dynamic html
- Utilizing **python flask** back-end with simple **javascript** and **jinja** front-end