Matt Goguen

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Personal Projects

Capstone Project: IoT Gateway / Data Exporter for Panevo Services Limited

- Built a custom GUI for non-technical users to interface with command line tools and control a SQL data exporter, and integrated both the exporter and GUI as a Windows Service
- Improved exporter architecture using asynchronous data processors

EasyChef: A Computer Vision Enabled Cookbook for Android

- Built a Python Google Image scraper to build a custom dataset
- Performed Transfer Learning using ResNet50 with Keras/Tensorflow and the custom dataset
- Built an AWS database of recipes scraped from BBC GoodFood and filtered these recipes based on the ingredient recognized
- Integrated these features into an Android application, allowing detailed step-by-step cooking instructions for the recipe selected

Custom Microprocessor on an Altera DE1-SoC board

- Designed all components of the CPU in Verilog using Quartus
- Implemented ARM Assembly instructions

LiveWired: iOS Audio Transcription App for Meeting Minutes

- Transcribed speech to text using Apple's Siri technology
- Saved transcribed meetings using Firebase

Education

University of British Columbia, Vancouver, BC.   2015-2020

Bachelor of Applied Science (Engineering) in Computer Engineering

Skill Highlights

Languages
C, C++, C#, Javascript, HTML / CSS

Cloud Services
AWS, Firebase, Azure

Project Management
Agile Methodology, Git

Operating Systems
Windows, Mac, Linux

Work Experience

PricewaterhouseCoopers (PwC)   June 2019 – August 2019

Digital Lab Technology Development Intern

Digital Lab is an emerging startup within PwC that provides a marketplace for sharing automations (bots, data visualizations, AI tools, etc). Responsible for Full Stack development using MS SQL, .NET Core, and Angular. Developed an analytics page for visualization of usage data of an automation shared by an author, allowing the business and automation authors to better understand the impact of automations. In addition, worked outside of the intern team to design a user tracking system for the application, which is now in use to report user metrics, specifically user interactions with the various endpoints in the SPA.

Whistler Blackcomb Resort   **May 2018 – September 2018**

DFX Downhill Mountain Bike Instructor
Whistler Bike Park is considered the best in the world.
Coached expert young riders aged 8-18, primarily in large jump progression and in riding extreme terrain.
Responsible for risk management, first aid, and being the main liaison with parents and customers.

Angel Fire Resort   **Summers May 2016 – August 2017**

Head Downhill Mountain Bike Instructor
Angel Fire is the #1 rated mountain bike park in the Southwest U.S. (mtbparks.com) and one of the top-rated parks in the world.
Coached beginner to expert downhill mountain bikers in all aspects of successful progression in a challenging and high-risk sport. Trained all ages and abilities. Responsible for safety and first aid. Lead customer service as the head ambassador for the mountain and worked in the bike shop as a mechanic.

Achievements / Certifications

UBC Sailing Team – Travel and Safety Officer (elected) 2016-2019
- Selected to represent UBC at the 2017 Canadian Intercollegiate Sailing Association Nationals hosted by the Royal Military College of Canada in Kingston, Ontario
- Won the J70 class of the 2017 EDHEC International Regatta in Port Arzon, France. The EDHEC regatta is the World's Largest Intercollegiate Offshore Regatta

Professional Mountain Bike Instructor Association (PMBIA) Level 2 Certified Professional Mountain Bike Instructor
- Received Level 2 Certification after only one year of coaching experience at the age of 20
- PMBIA recommends 5 years of experience minimum before attempting to reach level 2

Texas All-State Academic Baseball Team

Two Time Academic High School Baseball Player of the Year

Completed the 2016 Vancouver BMO Marathon (at 19 years of age)