

Matt Goguen

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Education

University of British Columbia, Vancouver, BC.

2015-2020

Bachelor of Applied Science (Engineering) in Computer Engineering – 3.7 GPA

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 image 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

Skill Highlights

Languages

C, C++, Python, Java, HTML, SystemVerilog/VHDL

Cloud Services

AWS, Firebase, Azure

Project Management

Agile Methodology, Git

Operating Systems

Windows, Mac, Linux

Employment

Whistler Blackcomb Resort, Whistler, BC

May 2018 – September 2018

Professional Downhill Mountain Bike Instructor

Whistler Bike Park is considered the #1 downhill mountain bike park in the world and is home of the Crankworx World Tour. Coached expert young riders aged 8-18. Primarily large jump progression and riding extreme terrain. Responsible for risk management, first aid, and being the liaison between the resort and customers.

Angel Fire Resort, Angel Fire, NM

Summers May 2016 – August 2017

Head Downhill Mountain Bike Instructor

Angel Fire is the #1 rated downhill 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 of all ages in all aspects of successful progression in a challenging and high-risk sport. 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 Intercollegiate Race Team - 2016 - 2019

- Member of the UBC competitive sailing race team
- Elected as the team Travel and Safety Officer 2016-2019
- One of four sailors Selected to represent UBC at the 2017 Canadian Intercollegiate Sailing Association Nationals hosted by the Royal Military College of Canada in Kingston, Ontario
- Member of the winning J70 class team at 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 - 2017

- Achieved Level 2 Certification at the age of 20 (PMBIA recommends 5 years of teaching experience before attempting to reach level 2 certification)

Texas High School 6A Varsity Baseball - 2013 - 2015

- Named to the Texas 6A All-State Academic Baseball Team
- Two Time High School Academic Baseball Player of the Year

Member, National Honor Society - 2013 - 2015

2016 Vancouver BMO Marathon Finisher (19 years of age)