Taren Gorman

Phone: 425-876-3095
Email: tarengorman@gmail.com

Qualifications

· Development experience with: Python, JavaScript, C++, C#, Unity3D, Arduino and AR/VR technology.
· Scientific computing: Data-acquisition, code optimization, error propagation, regression on large data sets, and clear visualizations.
· Computer-savvy and self-driven, eager to apply new systems and APIs on projects.
· Strong mathematical modeling skills, including a solid background in computer algorithms.
· Industrial experience within a multi-cultural team under deadline pressures.

Education

UNIVERSITY OF WASHINGTON, SEATTLE | GRADUATION DATE: JUNE 2017

B.S. APPLIED PHYSICS | MINOR APPLIED MATHEMATICS

Noteworthy Coursework

· **Programming:** High-Performance Scientific Computing 483, Scientific Computing 481, Computational Methods for Data Analysis 482, Machine-Learning AZ, Computer Programming I-II
· **Labs:** Digital Circuits, Analog Circuits, Optics, Experimental Physics

Work Experience

RESEARCH ASSISTANT | MECHANICAL ENGINEERING LAB, UW | 2017 (*CURRENT*)

· Using Python to explore Sparse Identification of Nonlinear Dynamics (SINDy algorithm) with real-time Inertial Measurement Unit (IMU) data over Bluetooth.

· Involves use of custom Python libraries and common frameworks such as: Pandas, scipy, numpy, sklearn, plotly, jupyter notebook, keras, tensorflow, and git version control.

· Developed extensive knowledge of machine learning working alongside a talented graduate research group developing reduced order modeling and neural nets.

STUDENT MENTOR | COMOTION, UW | 2016-2017

· Assisted fellow students on engineering projects in the makerspace, while emphasizing safety and a collaborative atmosphere.

· Explored the use of 3D-Printer, Laser cutter and AR/VR devices for development purposes. Used: Rhinoceros CAD, Arduino, Unity3D and JavaScript three.js.

PRODUCTION/INVENTORY | OCEAN BEAUTY SEAFOODS LLC | SUMMERS 2012-2016

· Proactively sought multiple roles and training, including: production line lead, inventory, packaging, receiving product, forklift certification, truck route assistant.

· Processed and moved a large volume of products for distribution in the greater Seattle area, with 50+ hours/week at periods of high demand alongside a diverse crew.