Scott H. Waldron

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Professional Experience   (3+ years)

Costco Inc.   Sequim, WA
Stocker & Assistant   Oct 2020–Present
– Worked alongside the morning merchant staff to provide a prompt resetting and stocking of merchandise.
– Facilitated front-end staff when the warehouse was open to members
– Established best practices when working around machinery or helping members

Ridgeline Solutions Inc.   Bozeman, MT
Software Engineer   Sep 2019–Apr 2020
– Implemented meta-programming approaches to meet customer needs
– Designed highly customizable code applications and solutions meeting varying levels of customer demands
– Collaborated in a small team setting to facilitate rapid deployment and agile development

Western Washington University   Bellingham, WA
Graduate Assistant   Jan–Jun 2019
– Worked alongside educators to provide an education for the students of computer science
– Facilitate understanding and provide feedback to students on the development and thought paradigms behind data-first code
– Designed lab curriculum to best teach prospective future developers to uphold best practices

SPIE   Bellingham, WA
Software Development Intern   Jan–Nov 2018
– Designed and implemented major front-facing web pages using an Agile environment to the benefit of the customer
– Collaborated with peers, project managers, and senior software managers following the Agile development process to maintain quarterly deadlines
– Independently implemented a major API to include interactive transcripts to increase member accessibility of all SPIE videos

Education

Western Washington University   Bellingham, WA
Master of Science in Computer Science

Western Washington University   Bellingham, WA
Honors Bachelor of Science in Computer Science

Software Projects

Network Anomaly Detection
Research Thesis   *Furnished upon request*
– Applied exponential random graph model (EGRM) theory to packet requests in a contained network to obtain likelihood coefficients
– Coefficients were trained and tested against an auto-regressive moving average model to provide a threshold alert value
– Achieved an F_2 score of .809 when tested against a data exfiltration of 100-500MB

NFL Play Prediction

Deep Learning Principles   *Furnished upon request*

- Implemented a convolutional long short-term memory model (LSTM) to analyze play-by-play analysis.
- Designed a production grade convolutional model to predict game outcomes using regression techniques.
- Collaborated with team and project manager to produce robust models to outperform majority class by 22%.

Micro Kernel Development

Operating Systems Internals

- Concurrent kernel resource management involving interprocess communication between threads
- Organized and scheduled user-level processes
- Implemented multiprogramming with fork involving file-related syscalls
- Coordinated and synchronized serial I/O device drivers

Skills

- Expert : C\C++, C#, Java, Python, R, TensorFlow, Keras, Pandas, Jupyter Notebooks

- Intermediate : NodeJs, Javascript, HTML, CSS, SQL, Elasticsearch, Latex (This resume uses it!), PyTorch

- Learning : PHP, d3, Django, and much more...

References & Works Furnished Upon Request