Nolan Kurylo

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✉️ kurylon@telus.net　　🖥️ https://nolankurylo.github.io/

📚 EDUCATION

Bachelor of Software Engineering (Co-op) - University of Victoria

September 2017 – May 2022

3rd Year, Previous GPA – 8.8/9 (3.98/4), Cumulative GPA – 8.11/9 (3.83/4)

Relevant Courses: Computer Architecture, Data Structures and Algorithms I, Continuous-Time Systems and Signals

Current Courses: Data Structures and Algorithms II, Control Theory I, Digital Signal Processing

🛠️ SKILLS

Technical

- Programming in C/C++, Assembly, Python
- MATLAB, SQL, No-SQL; query writing
- Familiar with RISC and CISC based computer architectures
- Embedded programming with Arduino, Raspberry Pi and ESP8266 Wi-Fi Module
- Experience with LINUX/UNIX systems, Git Version Control
- Understanding of data structures and algorithms and design
- Strong interest in Machine Learning and AI for embedded applications

Workplace

- Ability to self-learn with minimal supervision
- Capable of writing concise, technically based reports
- Experience working in individual and group settings
- Achieved an exceptional GPA throughout High School and University
- Able to think critically and analytically to solve problems
- Highly self-motivated and self-directed
- Proficient with Microsoft Office Suite (Word, PowerPoint, Excel)

👤 PROFESSIONAL DEVELOPMENT

- Developed a real-time embedded system to control LED Strip using Arduino Uno and ESP8266
- Using a Raspberry Pi, PIR motion sensor and camera, developed a security application that uploads a video clip of the detected movement to a webpage
- Designed an embedded application via ATmega2560 Arduino of a Collatz sequence calculator. Controlled by buttons and displayed through LCD shield via timer interrupts and the ADC converter
- Created an Arduino-based clock that displays the time/date on an LCD display. Clock updates in real-time corresponding to timer driven interrupts and the I2C communication protocol.

- Created a full stack mobile app to manage IOUs between friends, using Node.js, React Native and PostgreSQL
- More detailed project descriptions and code available at my personal website: https://nolankurylo.github.io/

WORK EXPERIENCE

Full Stack Web Developer Co-op - Ergonomyx Technologies Canada, Victoria BC
January – August 2019
- Designed, programmed and tested a ground-up, full stack e-commerce website
- Implemented a RESTful Node.js API to query a PostgreSQL database
- Followed an Agile software development life cycle
- Provided backend development for hardware and the mobile application

Irrigation Service Technician - Next Rain Irrigation Ltd. Calgary AB
May – August 2018
- Worked independently providing exceptional customer service and repairs for residential and commercial irrigation systems
- Demonstrated the ability to identify, assess and correct specific problems with the system

Landscaping Crew Leader – Mountain View Landscaping, Calgary AB
May – August 2017
- Worked as a laborer on various projects involving landscaping and construction
- Lead a group of three employees for larger projects

PERSONAL DEVELOPMENT
- Played two years of junior hockey, which included various volunteering assignments
- Coached young hockey players for Hockey Canada over several summers
- Maintaining optimal physical shape by working out and playing hockey

AWARDS
- SGI Corporate Scholarship   2019
- Alexander Rutherford Scholarship   2017
- University of Victoria Entrance Scholarship   2017
- Honors with Distinction (High School)   2013 – 2016

REFERENCES
- **Sergio Perez** – Mechatronics Engineer, Ergonomyx Technologies Canada, Victoria BC
- **Stephen Steel** – Franchise Owner, Benjamin Moore, Canmore AB
- **Joe Aiello** – President, EdgeTech Computing, Calgary AB

(Contact information available upon request)