Colby Pryor
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Work Experience

Software Engineer- WithYouWithMe: Currently contracted to the RCMP to develop and maintain software systems currently used by the agency. Also a security advisor to the team providing security advice and assessment to ensure a proactive defense-in-depth strategy. Before contracted, worked internally with the company Quality Assurance team to perform manual regression testing, positive and negative testing, as well as security testing.

Founder & Chief Executive Director- Canadian Premier Robotics: Founded a non-profit organization to provide universal access to science & technology education in Canada through robotics education and competition. Manage a team of experienced executives, volunteers, as well as organizational operations as a whole. Gaining experience in business, finances, as well as executive management of an organization.

Boatswain- HMCS Cabot (Naval Reservist): Currently undergoing military training to be a Boatswain and Port Inspection Diver alongside my position at WithYouWithMe. Received "Top Shot" during Basic Military Qualification.

Head of Software- Airntell Aerospace: Lead a team of software developers in implementing innovative algorithms for automated drone technologies, to aid in Search & Rescue operations.

Software Engineer- Eastern Edge Robotics: Implemented computer vision algorithms to detect and stitch colored images together for an underwater robotic system.

Educational Experience

- **Computer Programming**
  Algonquin College (2020-2022)
  - Graduated program with 3.5/4.0 GPA.
  - Dean's Honor's List Recipient for Fall 2020 and Spring 2021.

- **Computer Science**
  Memorial University of Newfoundland (2019-2020)
  - Completed first year computer science programs in Python, data structures and algorithms, Boolean logic and theory, computer architecture, as well as French language courses.
  - A former member of the Seahawks Cross-Country Team.
  - A Software Engineer with Eastern Edge Robotics, specializing in computer vision systems for underwater robotics.

- **High School Diploma with Baccalaureate Status**
  Ascension Collegiate (2016-2019)

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Technical Experience & Certifications

- Proficient in Python, C++, Java, JavaScript, HTML/CSS, PHP, Bash, COBOL, and SQL (LinkedIn Certified).
- Experience with database(s) MySQL, SQL Server, SQLite, SQLPlus, and NoSQL databases such as MongoDB and Neo4j.
- Experience with OpenCV, TensorFlow, SciPy, NumPy, Jupyter Notebook, and various other packages and frameworks.
- Familiar with VMWare, VNC, and various other virtualization programs.
- IT troubleshooting and networking skills, office software skills, as well as electronics assembly and troubleshooting skills.
- Experience using CMD, PowerShell, and Linux Bash command lines.
- Proficient in Quality Assurance testing with Azure DevOps specializing in manual regression testing, positive and negative testing, as well as security testing.
- Experience working in Agile and SCRUM environments contributing to the software development lifecycle.
- Certifications: Azure Fundamentals Certification (AZ-900), Standard First Aid, WHMIS 2015, OH&S, Defensive Driving.
- Proficient in both English and French.

Project Experience

- **MariTrack:** A Java web application that utilizes Python Optical Character Recognition to monitor incoming and outgoing vessels from Canadian ports, deterring illegal smuggling, piracy, and human trafficking.
- **MariCast:** A Python application that allows mariners to easily retrieve marine weather reports, nautical charts, and weather warnings all in one resource.
- **AudioID**: During the COVID-19 pandemic, implemented a voice recognition system that utilizes secure numeric keys to authenticate users. AudioID is an open-source, Internet-free application that allows users to access controlled areas traditionally requiring a physical device (i.e. RFID card), without contact.
- **Airntell Interface**: Airntell Companion GUI (team): Made an user friendly interface for the successful deployment of Airntell aerial systems using Python, JavaScript and C++.
- **Blinking Light Decoder**: Using Arduino and C++, created a device that decodes blinking lights from naval vessels into English or Morse Code.
- **ROSIE Control & Propulsion**: Created and implemented software to control an underwater robotic system with Arduino and C++,mentored other students in the proper usage of the IDE along with C++ concepts