Colby Pryor
St. John's, NL A1E 4C3
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Work Experience

Software Engineer- WithYouWithMe: Currently contracted to the Government of Canada to develop and maintain software systems currently used by the agency. 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

- **Cybersecurity (Incoming)**
  - Conestoga College (2022-2023)
- **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