Jordan Heinrichs

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Skills

- Competent and experienced programming using TypeScript/JavaScript and C++
- Experienced with SQL, Ruby, Python, CSS, and Perl
- Database management with MongoDB and PostgreSQL
- Front-end experience with Vue and Angular Frameworks
- Back-end experience with Node.js with Express offloading to C++ for processing
- Infrastructure experience with AWS and Docker
- Strong problem solving and troubleshooting skills
- Practiced Agile and test driven development
- Hard-working, motivated, and a team-player
- Enjoy challenges, learning, and problem solving

Work Experience

Arterys, Inc., Calgary   **June 2018 - Present**
Software Developer

- Full stack developer on a cloud native medical imaging application
- Developed web application with Vue and AngularJS
- Back-end development with C++, Node.js, and MongoDB
- Deployed and managed scalable clusters in the AWS ecosystem
- Coordinated small teams to estimate and release projects on time
- Worked with product team to deliver impactful features
- Researched and implemented algorithms for cardiac MRI analysis
- Mentored junior developers with a focus on constructive feedback

Hitachi ID Systems, Inc., Calgary   **May 2016 - June 2018**
Intermediate Software Developer

- Enhanced an ID/access management software used in large organizations
- Improved the product's front-end web interface with jQuery and Angular with TypeScript
- Back-end development with C++ and MSSQL Server
- Maintained integration tests with Ruby and Watir
- Windows development and testing environment with Git and Cygwin

Lockheed Martin CDL Systems Ltd., Calgary   **May 2014 - Aug 2015**
  Software Developer Intern

- Worked on software to interface between two protocols for UAV flight control
- Used Test Driven Development and other Agile methodologies
- Gained experience with C++ with QT, Perl, and Git
- Learned and implemented Domain Driven Design
- Developed for Windows, Linux, and Linux on ARM

NSERC Research, University of Calgary   **May 2013 - Aug 2013**
  Summer Research Student

- Created a program to capture position of the hexacopter using video tracking with C++ OpenCV
- Analysis of data using Matlab and C++ for the efficiency of sensor deployment
- Presented results and data in meetings and reports

Education

BSc, Electrical Engineering, minor in Computer Engineering   **2011 - 2016**

- University of Calgary
- GPA: 3.9/4.0 cumulative

Extracurricular Activities

University of Calgary Solar Car Electrical Team   **Sept 2013 - Jan 2016**

- Created telemetry protocol to communicate over XBee radios
- Used C++ with QT framework
- Worked on embedded system for driver controls
- Interfaced with multiple systems over CAN, UART, and SPI
- Experienced with prototyping circuits and soldering
- Lead software developer, mentored newer members
- Team projects are located here:
    - `www.github.com/UCSolarCarTeam`

Hobbies

- Endurance athlete, trail, and road running
    - 2019 Boston Marathon finisher
    - Marathon PR of 2:43:55
    - Completed my first race over 100 km at the 2019 Golden Ultra
- Ski mountaineering, scrambling, and mountaineering
    - Summited Cotopaxi Volcano (5897 m) in Ecuador
    - Climbed and skied off of Mount Columbia, the highest point in Alberta