Software Developer

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Creative developer passionate about finding alternate ways to solve problems. I am a confident team member that finds razor sharp focus in a collaborative and dynamic work environment.

Projects

Bent Shaft Maps is a platform for mapping whitewater rivers. React/Node.js/MongoDB/JWT/SASS/Heroku | Try it | See Code

- Created a web framework for paddlers and kayakers to intuitively create and share techniques and routes for navigating whitewater rivers.
- Utilized JWT authentication for secure and persistent user log in.
- REST API allows user interaction with noSQL database.
- Hosted on a secure domain and follows Open Web Application Security Project (OWASP) design principles.

ExoTask is a front-end task organizing interface. React/SASS/Netlify | Try it | See Code

- Designed with mobile-first principles to accommodate for any device type.
- Logical state management based on React principles.

River Level Gauge built for tracking water level on remote whitewater rivers. C++/JavaScript/Microcontroller | See Code

- Programmed and built a device that remotely monitors volumetric river flow.
- Published documentation that allows the project to be recreated using inexpensive components.

Work Experience

Environmental Response Specialist—Canadian Coast Guard Mount Pearl, Newfoundland | September 2019-January 2020

- Responded to marine based oil spills using appropriate methods, techniques and safety standards.
- Created spill prediction models using ArcGIS from historic spill data in the Maritime and Atlantic regions.

Clubs and Societies Commissioner—Carleton University Students Association Ottawa, Ontario | September 2017-May 2019

- Coordinated events, seminars and trainings for Carleton University's Clubs and Societies program.
- Continuously implemented programs, services and improvements based on feedback from student leaders.

Tree Planter—Timberwolf Planting, Folklore Contracting, Coast Range Contracting Canada and Australia | April 2014-August 2017

AutoCAD Draftsperson—ProSlide Technologies

Ottawa, Ontario | May 2011-April 2014

- Used computer assisted design software to create 3D drawings, plans and
- Designed multiple slides that were accepted by clients and constructed.

Technical Skills

Languages

HTML, CSS, JavaScript

Frameworks/Libraries

React, Node.js, Express, REST APIs, JWT Authentication, SASS, **Bootstrap**

Database

MongoDB, Mongoose ODM

Tools

Adobe Suite, Figma, Visual Studio Code, Git, ArcGIS, QGIS, AutoCad

Education

Bachelor of Environmental Science Carleton University, Ottawa, Ontario

Graduated: Spring 2019

Leadership

Outdoors Club of Carleton University (President)

Lead a variety of outdoor trips for university students in Ontario including canoeing, kayaking whitewater rafting, hiking and rock climbing.

Hobbies

I enjoy anything and everything that gets me outdoors, notably bird watching and whitewater kayaking!