

CONTACT

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📞 4039211096

📍 Calgary, Canada

SKILLS

HTML, CSS, JavaScript, React, Node.js and SQL Database

C#, Fortran and Matlab

AWARDS

Dean's Special Doctoral Scholarship

2003-11-20

University of Calgary

Alberta Ingenuity Industry Associate

2006-12-07

Alberta Ingenuity Fund

EDUCATION

Software / Full Stack Development

May 2020 - Nov 2020

Bow Valley College

PhD in Geotechnical Engineering

Sep 2001 - Nov 2006

University of Calgary

BSc and MSc in Civil Engineering

Sep 1988 - Mar 1995

Sichuan University

Jiancheng Du

FULL STACK DEVELOPER

SUMMARY

Passionate full stack developer seeking an entry level job to delight clients. Completed Software/Full Stack Development Program by ICTC and Bow Valley College. Past work in the oil and gas industry included the use of ArcGIS, and SQL Server database. Strong background in computer programming using Fortran and Matlab, and Windows and Linux operating systems. Ability to program using C# and JavaScript (Node.js) on the front-end and back-end. Understand SQL database theory and API, and able to apply HTML, CSS, JavaScript and React to create websites and user interfaces.

EXPERIENCE

Geotechnical Engineer

Nov 2020 - Present

Tetra Tech

- Developing technical solutions to assist in the design and evaluation of challenging geotechnical applications.
- Collecting, analyzing geotechnical information, and preparing technical reports.
- Participating in proposal development, planning resources, schedules, and managing projects to be on budget and on time.

Full Stack Development Student

May 2020 - Nov 2020

ICTC and Bow Valley College

- Learned courses of C#, HTML, CSS, JavaScript, Node.js, and SQL Database.
- Developed a cashier calculator using HTML, CSS, and JavaScript.
- Developed a Transaction Management System in JavaScript with generator and yield features, and tested the code with Mocha, Chai, and Sinon.

Geomechanics/Geotechnical Engineer

Oct 2008 - Jun 2019

Alberta Energy Regulator (AER)

- Assessed safety risk of tailings dam for oil sands mining projects, and prepared recommendations for AER decision making processes.
- Conducted technical reviews of geotechnical modelling of tailing dam seepage and slope stability.
- Assessed fluid containment risk and caprock integrity for in situ oil sands development and operations.
- Conducted geotechnical and geomechanics modelling studies for a variety of in situ oil sands projects regarding the caprock integrity.
- Coordinated oil and gas development applications and communicated with stakeholders for their concerns about the applications.
- Provided technical training to junior staff in the areas of geotechnical engineering, hydraulic fracturing, and wellbore stability.

Geotechnical Engineer

Dec 2006 - Oct 2008

Imperial Oil Resources

- Numerically modeled fracture propagation in the Colorado shales as a result of high-pressure steam injection in the oil sands reservoir.
- Conducted minifrac tests in Cold Lake to determine the in-situ stresses.
- Performed tri-axial and hydraulic compression tests on Cold Lake oil sands under small-strain and high confining pressure conditions.
- History matched the surface heaves above a cyclic steam stimulation pad from InSAR to calibrate the geotechnical properties of the Colorado shales.
- Performed coupled geomechanics-reservoir simulation on UTF Project.
- Performed Biot's consolidation analysis using self-developed simulator.