

Iyinoluwa Samuel Adejumo

Edmonton, AB | 825-461-6947 | iyinade64@gmail.com | www.linkedin.com/in/iyinadejumo | <https://www.iyinoluwa.me/>

HIGHLIGHTS OF SKILLS

- **Software Development:** Proficient in HTML, CSS, JavaScript, Python, TypeScript, React, React Native, and Node.js; experienced in building responsive web applications and mobile apps.
- **Engineering Expertise:** Petroleum engineering background with experience in well simulation, production optimization, and artificial lift system design using PIPESIM and OLGAS models.
- **Communication & Project Management:** Strong ability to convey technical information, work effectively in teams, and manage complex projects from concept to completion.
- **AI Integration:** Applied artificial intelligence and machine learning to enhance engineering processes and streamline app development workflows.

EDUCATION

BSc in Petroleum Engineering
University of Alberta, Edmonton AB

September 2020 – April 2025

RELEVANT WORK EXPERIENCE

Founder & Developer

June 2025 – Present

UniSettle (Mobile App for International Students) – Edmonton, AB

- Designed and developed a cross-platform mobile app using React Native, Expo and Node.js to guide international students through essential settlement steps in Alberta (e.g., obtaining a SIN, Alberta ID, housing, and local services).
- Implemented a business listing feature for local entrepreneurs to advertise services to students.
- Published on iOS App Store: <https://apps.apple.com/ca/app/unisettle/id6749332997>, Android coming soon.

Society of Petroleum Engineers (SPE) – VP Tech

July 2024 – April 2025

University of Alberta – Edmonton, AB

- Independently initiated and developed the official SPE group website using React and CSS, improving the group's digital presence and event registration processes.
- Collaborated with club leadership to coordinate seminars and networking events with industry professionals.

Frontend Web Developer

June 2023 – August 2023

MecSimCalc – Edmonton, AB

- Implemented the OpenAI API using TypeScript and React to develop an intelligent, on-platform app creation system for [MecSimCalc](#), enabling users to build simulation apps more efficiently.
- Gained expertise in integrating AI with modern web development frameworks.

ADDITIONAL EXPERIENCE

Sales Associate, American Eagle – Edmonton, AB

June 2023 – Present

- Delivered outstanding customer service to guarantee a satisfying shopping encounter.
- Exceeded sales targets through effective product knowledge and selling techniques.
- Maintained orderly and aesthetically pleasing store displays to draw in customers.

PROJECT EXPERIENCE

Petroleum Production Operations

January 2024 – April 2024

Reservoir Engineering (PET E 366) – University of Alberta

- Optimized artificial lift systems (Gas Lift and ESP) by reconfiguring injection rates and well completion design after identifying flow efficiency bottlenecks, leading to a 15% increase in production efficiency in carbonate reservoirs.
- Achieved wellhead pressure matching within ± 20 psi using OLGAS 2-phase flow model in PIPESIM.
- Performed tubing sensitivity analysis, selecting optimal diameters (3–3.5 in) for maximum flow rates across three wells.
- Conducted thorough nodal and sensitivity analyses.

**Development Plan for Upper Mannville, Alderson Field
Capstone Project (PET E 496) – University of Alberta**

January 2025 – April 2025

- Evaluated reservoir with low permeability (0.02–10 mD) and high water cut (~69%) under strict budget constraints.
- Performed reserve estimation using volumetric, decline curve, and Accumap methods.
- Built full-field CMG simulation models for six development scenarios, including water, gas, and solvent injection, as well as infill drilling.
- Determined that converting two wells to water injectors was the optimal short-term EOR option, with a forecast **NPV of \$11.5 M** over 10 years.
- Designed cost-effective waterflooding implementation plan utilizing existing infrastructure and produced water to minimize CAPEX.

SKILLS & ABILITIES

- **Technical Skills:** HTML, CSS, JavaScript, TypeScript, React, React Native, Node.js, Git
- **Soft Skills:** Problem-solving, Communication, Team Collaboration, Project Management
- **Tools:** Microsoft Office (Word, Excel, PowerPoint), PIPESIM (Well Simulation)
- **Certifications:** Wellbore and Pipeline Modelling using PIPESIM