Iyinoluwa Samuel Adejumo

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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   **September 2020 – April 2025**
University of Alberta, Edmonton AB

RELEVANT WORK EXPERIENCE

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.

Society of Petroleum Engineers (SPE) Volunteer – 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.

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   **January 2025 – April 2025**
Capstone Project (PET E 496) – University of Alberta
- 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