Iyinoluwa Samuel Adejumo

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PROFESSIONAL SUMMARY

Petroleum Engineering student with expertise in web development and artificial intelligence, focused on applying AI-driven solutions to enhance engineering processes and solve software challenges.

EDUCATION

University of Alberta – Petroleum Engineering, BSc **September 2020 – April 2025**

WORK EXPERIENCE

Frontend Web Developer **June 2023 – August 2023**
MecSimCalc – Edmonton, AB

- Worked with MecSimCalc, an online simulation tool, to develop an AI-driven app creation tool using TypeScript and React. Streamlined app development processes by integrating machine learning algorithms for dynamic simulation models.
- Gained expertise in integrating AI with modern web development frameworks.

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.

VOLUNTEER EXPERIENCE

Society of Petroleum Engineers (SPE) Volunteer – VP Tech **July 2024 – Present**
University of Alberta – Edmonton, AB

- Utilized responsive web design strategies, leveraging React Js and CSS to develop the official SPE group website while improving user friendliness by optimizing page load speeds and layout consistency.
- Collaborated in organizing and coordinating events aimed at engaging students and professionals.

PROJECT EXPERIENCE

Petroleum Production Operations **January 2024 – April 2024**
Reservoir Engineering – 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, ensuring solutions met technical and economic feasibility.

Design of Bits Hydraulic System **September 2023 – December 2023**
Drilling Engineering – University of Alberta

- Developed a hydraulic design program for a 14,000 ft vertical well, recommending optimal drilling fluid flow rate and bit nozzle sizes to maximize hydraulic energy and drilling rate. Determined specifications for drilling fluid pumps, considering technical feasibility, safety, and economic factors.

SKILLS & ABILITIES

- **Technical Skills**: HTML, CSS, JavaScript, TypeScript, React, 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