

TAAHIRAH DENMARK

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EDUCATION

Lewis University - Bachelors of Science, Computer Science

EXPERIENCE & PROJECTS

Software Engineer Intern | Series

Sep 2024 – Mar 2025

Software Engineer Intern | Startup Company | Full-Stack Development | Next.js | Node.js | PostgreSQL | TypeScript

- Increased user engagement **30%** by implementing AI-powered NLP recommendations for 1,500+ active users.
- Scaled Node.js/Python back-end to handle **10K+ daily API calls** with <200ms latency.
- Reduced Firebase query response times **20%**, improving real-time data reliability.
- Authored documentation that cut new engineer onboarding time **50%**.

Software Engineer | Adaptive Job Neural Network (AJNN)

2025

AI-Powered Career Matching Platform | Python | TensorFlow | Node.js | Firebase

- Delivered **92% accurate** job matching across **20K+ profiles**, improving candidate-role fit.
- Built real-time Node.js + Firebase recommendation pipeline serving **5K+ users** with <300ms latency.
- Integrated explainable AI features, raising user trust and satisfaction **35%**.
- Reduced model training time **40%** using GPU acceleration and optimized batch processing.

Software Engineer | AI Interview Buddy

2025

Real-Time AI Assistant for Interview Prep | React | WebSockets | Python | NLP

- Built **<200ms latency** NLP pipeline for live interview guidance and suggestions.
- Fine-tuned LLMs for context-aware responses, improving mock interview success **25%**.
- Developed React frontend with WebSocket streaming supporting **1K+ concurrent users**.
- Optimized infrastructure for **99.9% uptime** during high-volume sessions.

Software Engineer | Sentient Debugger

Jan 2025 – June 2025

LLM-Powered Code Intelligence Tool | Python | Tree-sitter | LLaMA.cpp | Tauri | TypeScript | Rust

- Architected modular debugging platform integrating AI-powered static code analysis and local LLM reasoning.
- Designed Tree-sitter multi-language parser generating granular ASTs for code explanation, optimization, and generation.
- Integrated LLaMA.cpp for offline natural language queries and AI-guided code suggestions.

Operations Systems Engineer | Glass Light Hotel

Jul 2021 – Jun 2024

- Reduced service delivery latency **20%** via workflow optimization.
- Developed adaptive processes ensuring **100% compliance** with dietary restrictions.
- Built order management system improving guest satisfaction **35%**.
- Managed **50+ high-volume tasks daily** while maintaining operational quality.

TECHNICAL SKILLS

Front End | React, NextJS, Javascript, TypeScript, NodeJS, CSS, HTML, ShadCN, Bootstrap

Back End | Node.js, Express.js, Rust, Go, Ruby, Flask, Python

AI/ML | TensorFlow, PyTorch, Keras, Scikit-learn, Natural Language Processing (NLP), OpenAI API, Hugging Face Transformers, Generative AI, Reinforcement Learning, Advanced Algorithms & Optimization

Cloud & Infrastructure | Docker, Kubernetes