

# TAAHIRAH DENMARK

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## EDUCATION

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Lewis University - Bachelors of Science, Computer Science

## EXPERIENCE & PROJECTS

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### 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)

Present

*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

In Progress

*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 – Present

*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

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**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