

Charith Lanka

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EDUCATION

University of Washington

Expected June 2027

Bachelor of Science in Computer Science

GPA: 4.0

Coursework: Data Structures and Algorithms, Hardware and Computer Organization

TECHNICAL SKILLS

Programming Languages: Python (FastAPI), JavaScript (Node.js), C#, React, Next.js

Databases: PostgreSQL, MySQL, MongoDB

Tools: Docker, Kubernetes, GCP, AWS

AI : OpenAI API, Kafka, Redis, NLTK, Pandas

EXPERIENCE

OmniSynkAI

Sept. 2024 – Present

Full Stack Developer

Seattle, WA

- Developed **AI-driven SEO optimization** for e-commerce platforms, integrating Python (FastAPI), Node.js, and LangChain to automate and enhance product listing metadata, resulting in a 35% increase in organic traffic for merchants.
- Built and optimized a scalable **multi-channel inventory management system** using React, Next.js, and PostgreSQL, reducing inventory sync latency across platforms by 50%.
- Engineered a **real-time data processing pipeline** using Kafka and Redis, enabling automated price and stock updates across Shopify, eBay, and TikTok Shop, decreasing update lag by 60%.
- Implemented a dynamic **AI-powered autofill feature** leveraging OpenAI's API and fine-tuned ML models, reducing product listing time by 40% while maintaining platform-specific compliance.
- Deployed a **microservices architecture** with Kubernetes on GCP, improving system reliability and handling 3x the previous transaction volume without performance degradation.

Horizen Ag

Jun. 2024 – Sept. 2024

Junior Developer

Bellevue, WA

- Diagnosed and resolved **10+** high-priority technical issues, improving system uptime.
- Led the development of an **AI-powered chatbot** in C# and React, integrating it with the ERP system, resulting in clients reporting a 50% reduction in time spent accessing information.
- Optimized shipping workflows by automating inventory synchronization with Entity Framework, **reducing manual entry errors by 40%**.

PROJECTS

AI-Powered Vector Search Chatbot

- Built a chatbot that answers questions based on custom documentation. Leveraging OpenAI's GPT model, Langchain, and MongoDB Atlas for embedding and vector search functionality. Chatbot pulls data from the Bacalhau documentation, allowing users to ask questions about contributing to Bacalhau, and get answers based on the official docs.