

Charith Lanka

📞 425-428-7476 | ✉️ rithlanka@gmail.com | 🌐 charithlanka | 📺 lankacharith

EDUCATION

University of Washington

Seattle, WA

Bachelor of Science: Computer Science

Jun 2027

Relevant Coursework: Data Analysis, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence

GPA: 4.0

EXPERIENCE

OmniSynkAI

Bellevue, WA

Software Engineer Intern

Sep 2023 - Current

- 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

Redmond, WA

Software Engineer Intern

Jun 2024 – Sep 2024

- Diagnosed and resolved 10+ high-priority technical issues, **improving system uptime**.
- Developed and deployed an **AI-powered chatbot** in C# and React, integrating with the ERP system, cutting client information retrieval time by 50%.
- Streamlined shipping workflows by automating inventory synchronization using **Entity Framework**, minimizing manual entry errors by 40% and improving shipment processing efficiency.

ACADEMIC PROJECTS

AI-Powered Vector Search Chatbot

- Developed a chatbot that answers questions based on custom documentation using OpenAI's GPT, LangChain, and MongoDB Atlas for vector search.
- Integrated with Bacalhau documentation, enabling users to get accurate responses based on official docs.

ADDITIONAL

Technical Skills: Advanced in SQL, PHP, JavaScript, HTML/CSS; Proficient in MATLAB, Python, AWS, GCP, MERN, LLM development, Excel, Product Management, User Needs Analysis, Market Research, Cross-Functional Collaboration, Salesforce, Hubspot.

Awards: Dean's list (every quarter)