

Charith Lanka

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EDUCATION

University of Washington

Expected June 2027

B.S. in Computer Science

GPA: 3.9

Coursework: Data Structures and Algorithms, Hardware and Computer Organization

TECHNICAL SKILLS

Programming Languages : Java, C++, C#, Python

Frameworks : React Native, GraphQL, Entity Framework, NLTK

EXPERIENCE

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

Sentiment Analysis Using VADER and RoBERTa

- Analyzed 50+ topics from **5000+ Google search results** using VADER, RoBERTa, and Hugging Face Transformers to extract public opinion trends.
- Built an automated web scraper with BeautifulSoup and Google Custom Search, **optimizing token usage** for efficient data retrieval.
- Developed scalable pipelines with Python, Pandas, and NLTK to process **50,000+ data points** and visualize sentiment trends with Matplotlib and Seaborn.

CONTRIBUTIONS

Distributed Computing with Bacalhau

Jan 2025

Advisor: David Aronchick

- Refined Bacalhau installation and setup guides, enhancing clarity for new users.
- Contributed a Sentiment Analysis example demonstrating Bacalhau's distributed machine learning capabilities.
- Improved usability and accuracy of Private Networking and Workload Onboarding documentation.