BINIYAM GEBREYOHANNES

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EDUCATION

University of Washington Seattle

B.S. in Computer Science

North Seattle College

Associates of Science

GPA: 3.9

Seattle, WA

Expected Graduation Date: June 2026

Seattle, WA

September 2022 – June 2024

EXPERIENCE

Artificial Intelligence and Machine Learning Intern

STEMTAC Foundation

Seattle, WA

January 2024 - June 2024

- Collaborated with a 20-member team to develop and enhance facial recognition software using Python.
- Designed and optimized a machine learning model for face detection with OpenCV and Azure Custom Vision.
- Implemented rigorous testing protocols, improved detection efficiency through iterative refinements.

Undergraduate Research Intern

Seattle, WA

Clean Energy Institute, University of Washington

June 2024 - August 2024

- Used Python Pandas to analyze one year of mini-grid customer data, finding key patterns and insights to improve strategic planning and operational efficiency.
- Developed predictive machine learning models for forecasting electricity demand trends, correlating payment behaviors with temperature and precipitation data, achieving an accuracy of 82%.

PERSONAL PROJECTS

Global Weather Manager

- Set up a Weather Manager that processed a CSV file with 1 million rows of weather data and applied natural ordering by country, state, city, year, month, and day.
- Integrated a binary search algorithm to increase computational efficiency from O(n) to O(log n).
- Constructed a function to calculate linear regression of certain cities over specific time spans.

Book Browsing Application

- Utilized recursion to navigate through a binary search tree of 9000+ book options, minimizing redundant traversals.
- Addressed undefined problems and applied abstract thinking to enhance the interface.

Discord Bot Project | Python, EC2_metadata, AWS EC2, Discord API

- Constructed a Python application to ping a Discord server and query data from an AWS EC2 instance using the EC2_metadata API.
- Created an AWS EC2 instance and integrated it with a live Discord server to provide real-time metadata.
- Developed a bot to automate responses to common inquiries, reducing interruptions to engineering teams and increasing productivity.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, HTML, CSS
- Tools: OpenCV, Azure Custom Vision, Amazon EC2, S3, Pandas