

Nathan Bekele

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EDUCATION

University of Washington – Seattle

May 2026

B.S. Computer Science/Informatics | **Minor** in Data Science | **Minor** in Business Entrepreneurship

GPA: 3.6

Coursework: Data Structures & Algorithms, Client-Side Development, Algorithms Design & Analysis, Databases and Data modeling

TECHNICAL SKILLS

Programming Languages:

Java, Python, R, HTML, CSS, JavaScript, SQL, TypeScript, Swift, C++, C#, Go, Kotlin

Tools and Technologies:

Pandas, React, Bootstrap, Git, Jira, NodeJS, AJAX, Firebase, AWS, APIs, CI/CD, PostgreSQL

EXPERIENCE

University of Washington

Jun 2024 – Present

Software Engineering Intern

UW Applied Physics Laboratory

- Led the design, development, and testing of new QGIS plugin features for NSF's QIceRadar, including implementing CI/CD practices and automating data pipelines for seamless daily updates, enhancing system **reliability** and efficiency.
- Boosted data accessibility for over **220** researchers by developing a user-friendly web app that streamlined the display and retrieval of sub-glacial data, improving research workflows and reducing data access time.
- Optimized Antarctic geospatial datasets using **Python** and RDP/VW sub-sampling, cutting file sizes by **48%** while preserving data integrity, resulting in faster, more efficient analysis.
- Enhanced the QGIS **user experience** by implementing multi-resolution datasets, achieving a **25%** CPU improvement in zooming responsiveness and enabling smoother interaction with large-scale geospatial data.

United Freight

Jul 2024 – Present

Software Engineer

- Developed a secure personalized Flask-based app for **25+** drivers, eliminating paper logging and improving data accuracy by **22%**. Implemented concurrency control in **PostgreSQL** to ensure data integrity and handle simultaneous user operations.
- Integrated admin oversight and expanded to iOS and Android, resulting in **8** hours saved weekly in data entry/management and enhancing logistical operations.

CodeDay Labs

Jul 2024 – Present

Open-Source Software Engineering Intern

- Engineered a communication app for CodeDay interns with secure login, task tracking, friend management, group chats, real time event data, and real-time messaging using React, NodeJS, **MongoDB**, and CodeDay's Clear **API**.

PwC

Jul 2024 – Present

Nonprofit Consulting Extern

- Conducted strategic analysis and partner evaluation for The Children's Room, developing criteria and recommendations to optimize nonprofit collaborations and outreach strategies.

PROJECTS

NutriGenius – Diet Tracking Application | Fullstack Team Project | [link](#)

- Led a team of **4** and engineered 'NutriGenius', using **HTML**, **CSS**, **JavaScript**, and **React** to develop a nutrition tracking web app with Firebase managing a database of over **800** food items.
- Enhanced UX by implementing a searchable database with advanced filters for detailed dietary tracking and analysis.
- Created **8+** interactive quizzes on nutritional knowledge, improving user engagement and dietary awareness.

AI Content Detection in Academic Research | Personal Project | [link](#)

- Developed a Python web scraper to analyze academic papers, identifying AI-generated content through key phrases.
- Conducted in-depth **pandas** data analysis, revealing an **821%** increase in AI prevalence in research phrases post-2022.

Seattle Restaurant Finder App | Personal Project

- Built a **React** web app with **Node.js** and Express to recommend users top 5 Seattle restaurants via Places API.
- Implemented user quiz and ranking algorithm for personalized restaurant suggestions based on **2500+** locations.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

ColorStack | Chapter Founder & President

Mar 2024 – Present

- Founded** and led UW's first **ColorStack** chapter, addressing the **6%** Black & Latinx student representation in tech fields.
- Executed workshops, mentorship programs, and networking events for over **65** underrepresented tech students.
- Expanded impact through strategic partnerships, engaging with industry leaders such as Adobe, Amazon, and ServiceNow.

Management Leadership for Tomorrow | Career Prep Fellow

Feb 2024 – Present

- Accepted into a selective 18-month professional development program for high achieving **diverse** talent.
- Completed business case studies and assignments to grow **leadership** and technical skills.

Oromo Student Union | Executive Treasurer

Oct 2023 – Present

- Led analysis of financial data for strategic budgeting, increasing engagement by **40%** among **80** members.

LinkedIn Intern Development Program | Mentee

Jun 2024 – Present

- 1 of 30 students selected to work under a Senior LinkedIn Engineer for interview prep, pair programming & career support.

Microsoft Shadowship Program | Mentee

Apr 2024 – Jun 2024