

Bilal Hasan

509-701-7561 | bhasan26@icloud.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Whitworth University

Bachelor of Science in Computer Science

Spokane, WA

Aug. 2023 – May 2027

EXPERIENCE

Software Engineering Intern

May 2025 – Dec 2025

Kaiser Aluminum

Spokane, WA

- Developed an end-to-end Python automation pipeline for data auditing and user-group management, eliminating manual workflows across 5,000+ endpoints and reducing troubleshooting time by 30%
- Built a full-stack order-latency analytics system using Python and SQL to identify bottlenecks in order workflows, improving customer on-time delivery rates by 15%
- Engineered Python-based network diagnostic tools to monitor and audit endpoint health across a 5,000+ device enterprise network, improving infrastructure reliability by 20%

Information Technology Support Assistant

Jan 2024 – Present

Whitworth University

Spokane, WA

- Diagnosed and rectified an average of 12 student and faculty computer hardware and software malfunctions daily, ensuring minimal impact on academic activities and campus productivity.

PROJECTS

Brailleace | GitHub Repo

- Spearheaded development of a stateful AI voice assistant, increasing usage among visually impaired students by 60% and improving accessibility to educational resources on campus
- Engineered an NLP pipeline using the OpenAI API to analyze and condense long-form lecture transcripts into concise, study-ready summaries

Flood Relief Logistics Optimization | GitHub Repo

- Built a linear programming pipeline in Python and SciPy to optimize supply routing from regional warehouses to flood-impacted communities, minimizing total distribution cost
- Modeled supply, demand, and transportation constraints using linprog and validated solver complexity through empirical doubling experiments, confirming $O(n^3)$ performance

AI Resume Pro | GitHub Repo

- Deployed a full-stack web application that leverages AI-driven analysis to score resumes against job descriptions, providing real-time compatibility metrics.
- Developed the system using Python, Java, and React, supporting file uploads, dynamic resume parsing, and real-time job description matching
- Integrated the OpenAI API to generate detailed scoring, feedback, and improvement reports for users

Autext | GitHub Repo

- Built a full-stack text-to-speech application using JavaScript, Node.js/Express, and the Web Speech API, enabling users to generate and organize custom audiobook libraries with customizable voice settings

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, JavaScript, TypeScript, HTML/CSS, R, C#, Swift

Frameworks: React, Node.js, Flask, FastAPI, Angular, .NET, JUnit, REST APIs, Microservices

Developer Tools: Git, Docker, AWS, Azure, Google Cloud, Linux (Ubuntu), CI/CD, GitHub Actions, Postman, Wireshark, JIRA, Figma, Vercel, Netlify

Databases: MySQL, MongoDB, NoSQL, PostgreSQL

ML/AI: PyTorch, TensorFlow, LangChain, LangGraph, RAG, XGBoost, OpenCV, Transformers, LLM Finetuning, pandas, NumPy, Matplotlib

LEADERSHIP

GDG On-Campus Lead: Google Developer Group on Campus: Led workshops on Google technologies for ML, Deep Learning, and AI; organized 3 hackathons and expanded developer community

President Whitcode club: Led workshops on Machine Learning and product building