Gabriel Guo

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EDUCATION

University of Washington, Seattle **Expected: June 2025**

B.S. Computer Science (Data Science Option) *Current GPA: 3.6*

- Director of Outreach of Lavin Entrepreneurship Program
- Student in 2022-2023 Creative Destruction Lab
- **Relevant Coursework:** Data Structures and Parallelism, Machine Learning, Databases, Software Design and Implementation, Systems Programming, Computer Security

Camas High School (Salutatorian) **2017 - 2021**

SKILLS

Languages: Python, Java, C, C++, Kotlin, TypeScript, SQL

Frameworks: React, MongoDB, Pytorch, Cosmos DB, Google Cloud Platform, Numpy, Node.js, Next.js

EXPERIENCE

Software Engineer Intern - Productive Edge **Jun 2023 - Present**

- Designed and implemented the entire backend strategy for automating the matching of resumes to job listings in the healthcare industry
- Engineered prompts for the Large Language Model (LLM) to prepare resumes and jobs for matching.
- Implemented matching algorithm using Python and stored parsed job listing and resume data in MongoDB
- Utilized Retrieval Augmented Generation (RAG) with Google Cloud Platform (GCP) Gen App Builder search engine and GCP Vertex AI to streamline prior authorization process for healthcare payers
- Developed UI and backend of the chatbot using Next.js and Node.js

CSE 12x TA - University of Washington Seattle **Jan 2023 - Present**

- Teach two weekly classes of 20+ students design and implementation of data structures and object-oriented programming
- Develop teaching plan, grade assignments and exams, and host office hours

Portland State University Virtual Reality (VR) Internship **Jun - Aug 2020**

- Evaluated and improved fundamental VR course materials on Unity for Dr. Ehsan Aryafar
- Created an interactive VR game in Unity where users shoot at targets

PROJECTS

CIFAR-10 Image Classification **May 2023**

- Developed and implemented a machine learning model for CIFAR-10 image classification, achieving a test set accuracy of over 65%
- Utilized convolutional neural networks (CNNs) and hyperparameter tuning to enhance model accuracy and performance

Get To Class Faster - University of Washington Campus **Feb - Mar 2022**

- Built a full-stack web application that allows students to find the shortest walking path between two buildings on campus using React, TypeScript, HTML, CSS
- Implemented graph data structure and Dijkstra's algorithm in Spark Java Framework

ACTIVITIES

UW 2023 Startup Studio Competition - Director **Jan 2023 - May 2023**

- Led UW's largest student-run startup competition involving 50 undergrads, seven speakers, and five sponsors
- Managed a marketing team of six, recruited six judges and speakers, and ran the logistics of the competition