

VIHAN BAGAL

ENGINEERING AND CS

University of Washington, Seattle | bagalvihan@gmail.com | +1-669-256-6407

SUMMARY

A motivated University of Washington engineering student with a strong background in Python, Java, and algorithms. Gained practical experience developing an AI engine for a non-profit and a bioinformatics application for Stanford research. Eager to apply technical skills to hands-on engineering challenges.

TECHNICAL SKILLS

Python	Frontend GUI development	Git and GitHub workflow
Java	Backend development	
Standard AI algorithms	Bash	

INTERNSHIPS

Stanford University Snyder Lab

Jan 2022 - May 2025

- Analyzed gene sequences from the B-Cells of COVID-19 patients to identify avenues for COVID treatment and possible effects of long COVID
- Developed a platform-agnostic application in Python that integrates various tools like IGBLAST, Changeo, and Buildtrees to find patterns in SARS-CoV patient data. Analyzed and extracted gene sequences using this application to look for patterns of correlated symptoms in the COVID patients' data.

California Legal Rural Association

Nov 2023 - Dec 2024

- Developed an AI engine to dynamically tag messages and emails on an Afghani immigration help platform to make sure they get the most relevant and up-to-date information regarding their situation.
- Recipient of President's Volunteer Service Award (Gold) for this effort.

EDUCATION

Lynbrook High School, CA

Aug 2021 - June 2025

Unweighted GPA: 3.97

Related Coursework: AP Calculus BC, AP Computer Science A, AP Statistics, AP Physics C: Mechanics, AP Chemistry (A's in all classes)

University of Washington, Seattle

Sep 2025 - June 2029

Engineering Undeclared

- Relevant Completed coursework: Calculus 3 with Analytic Geometry, Linear Algebra
- Relevant Registered coursework: Differential Equations, Algorithms and Data Structures

LABS

Husky Satellite Lab

- Developing a Satellite, planned for space in Jan 2028. Part of the Attitude Control Team, responsible for writing software algorithms to maintain and control satellite orientation in space.
- Designing and building the complete ground station software infrastructure for satellite operations, including command and control and data processing.