

# Krish Doshi

425-240-8044 | kdoshi2@uw.edu | www.linkedin.com/in/krish~doshi | https://kridos.github.io

## EDUCATION

### University of Washington | Seattle, WA

Sep. 2024 - Jun. 2028

- **Double Major:** B.S in Computer Science and Statistics (Data Science), GPA: 3.99
- **Related Coursework (Completed by Summer 2026):** Data Structures & Parallelism, Foundations of Computing, The Hardware/Software Interface, Software Design and Implementation, Systems Programming, Machine Learning, Natural Language Processing, Introduction to Distributed Systems, Introduction to Probability and Mathematical Statistics

## TECHNICAL QUALIFICATIONS

**Languages (Proficient):** Java, Python, Dart

**Libraries/Frameworks:** OpenCV, Flask, JUnit, Selenium, NumPy, React

**Languages (Familiar):** C, C++ JavaScript, TypeScript, HTML, CSS, R, Assembly

**Tools:** Git Version Control, LaTeX

## RELEVANT EXPERIENCE

### Industriality | Machine Aftersale IoT/AI Company

Jun. 2022 – Sep. 2022

*Machine Health and Safety Prototyping Intern*

*Bothell, WA*

- Engineered a Firmware Prototype for a cutting-edge industrial LED Tower to improve workplace safety and acquired cloud computing skills with AWS
- Presented research on a more cost-effective and versatile microcontroller for prototype projects to the team, leading to significant enhancements in firmware features and reduced costs by 50%
- Firmware showcased to industry leaders at Hannover Messe Trade show, introducing the product and gaining support
- Technologies: C, Arduino IDE, M5Stack Core 2 Microcontroller, Python

### Woodinville High School Robotics | First Robotics Competition Team

Sep. 2021 – Jun. 2024

*President/Programming Lead/Business Lead*

*Woodinville, WA*

- Investigated advanced algorithms, including PID controllers and motion profiling, to optimize performance and create versatile code
- Reduced robot actuator latency (decreased reaction times after input given) by minimizing thread usage
- Implemented logging to diagnose and resolve issues during competitions and practice
- Technologies: Java, WPILib, OpenCV

### Provector Learning | Non-Profit Tutoring Organization

Sep. 2022 – Mar. 2024

*Backend Systems Manager*

*Bothell, WA*

- Secured student data and streamlined email communication systems, enabling quick updates to tutors and an efficient service for 100+ students
- Technologies: Google App Script

## PROJECTS

### MNIST Neural Network | Python, NumPy, Git

Jul. 2025 – Present

- Developing a multilayer perceptron neural network from scratch in Python using NumPy
- Implementing backpropagation and gradient descent to accurately classify handwritten digits from the MNIST dataset.

### Robotics Control Systems (FRC & FTC) | Java, WPILib

Sep. 2021 – Jun. 2024

- Developed robust autonomous routines and precise motor control, leveraging diverse sensor feedback (e.g., distance, color, IMU) for real-time, intelligent robot decision-making in the FTC and FRC robotics competitions

### Robotics Scouting App/Receiver | HTML, CSS, JavaScript, Dart

Mar. 2024 – Apr. 2024

- Produced a wireless scouting system that uses QR code scanning to collect and transmit data on opposing teams to a central receiver. This data is then formatted for easy viewing, enabling the team to efficiently create match strategies

### FoodSpect | Open Food Facts API, Dart, Git

Feb. 2024 – Feb. 2024

- Developed an app that identifies allergens in packaged food by implementing the Open Food Facts API and a barcode scanner, securing second place in the WAForge Hackathon and allowing people to avoid potential allergic reactions

## ACTIVITIES AND LEADERSHIP

### GEN1

Oct. 2024 – Present

*GEN1Intern/Student Relations Officer*

*Seattle, WA*

- Contributing to community engagement for the first-gen and CSE communities by supporting event planning and execution, building strong peer connections, collaborating with GEN1 officers, and shadowing executive officers while participating in leadership development activities

### CSE Student Advisory Council

Oct. 2024 – June 2025

*Council Member*

*Seattle, WA*

- Amplified student voices by facilitating communication with leadership, gathering feedback, advocating for inclusive policies, and organizing events to enhance community well-being and academic success

**Other Activities:** Piccolo Player in Husky Marching Band, Instrument Repair Assistant

**HONORS & AWARDS:** President's Volunteer Service Award: Gold, Toastmasters Competent Gavelier Communicator, UW Quarterly Dean's List, CSE Award for Excellence Scholarship