

Krish Doshi

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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, Tkinter, 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

Marching Show Planner | Python, Tkinter

Jul. 2025 – Present

- Engineered an algorithmic path-planning application that simulates and animates the coordinated movement of multiple agents along user-defined linear, circular, or curved paths.

MNIST Neural Network | Python, NumPy, Git

Jul. 2025 – Jul. 2025

- Developed 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

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