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, Software Design & Implementation, Systems Programming, The Hardware/Software Interface, 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, FastAPI
Languages (Familiar): C, C++ JavaScript, TypeScript, HTML, CSS, R, Assembly **Tools**: Git Version Control, LaTeX

Relevant Experience

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

Industrility | Machine Aftersale IoT/AI Company Jun. 2022 – Sep. 2022
Machine Health and Safety Prototyping Intern *Bothell, WA*

- Engineered a firmware prototype for an industrial LED Tower to improve workplace safety, integrating data collection and analysis components
- Presented research on cost-effective microcontrollers leading to 50% cost reduction and enhanced firmware features
- 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, AWS

Projects

Music Voice Assistant | *Python, FastAPI, OpenAI Whisper, TinyLlama, PyTorch, Hugging Face* Aug. 2025 – Present

- Engineered a full-stack AI application, leveraging a custom FastAPI and OpenAI's Whisper model to process spoken questions about music and band notation.
- Fine-tuned TinyLlama LLM on music notation and band data to generate highly accurate and tailored responses

Marching Show Planner | *Python, Tkinter* Jul. 2025 – Present

- Engineering 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
- Implemented backpropagation and gradient descent to accurately classify handwritten digits from the MNIST dataset.

Robotics Control Systems (FRC & FTC) | *Java, WPILib* Sep. 2021 – Jun. 2024

- Designed 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

Activities and Leadership

GEN1 Oct. 2024 – Present
GEN1ntern/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