

Suyash Sanjeev

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EDUCATION

University of Washington, Seattle

Sep. 2021 – June 2025

Bachelor of Science, Electrical and Computer Engineering

GPA: 3.73

- Relevant Coursework: Deep Learning, Convex Optimization, Machine Learning, Artificial Intelligence, Tiny ML, Discrete Math and Probability, Network Security and Cryptography, Robotics, Advanced Algorithms, Signals and Processing, Data Structures and Algorithms, Linear Algebra, HW/SW Interface, Database Systems, Data Science

EXPERIENCE

Software Development Engineer

Sep 2025 – Present

Amazon (AWS)

Seattle, WA

- Developing an AWS Health AI Agent that analyzes incident events, determines root cause attribution, and provides actionable recommendations for remediation.

SDE Intern

June 2024 – Aug. 2024

Amazon (AWS)

Seattle, WA

- Automated subservice onboarding to the Trusted Advisor API Gateway, reducing SDE work by **90%**
- Built a package using Java, Smithy, Jackson, and various AWS services to generate service configuration files, streamlining onboarding and eliminating potential for manual errors
- Made the necessary code changes to migrate five existing customer teams to the new process

Machine Learning Research Assistant

Jan. 2023 – Apr. 2023

Byron Boots Robot Learning Lab

UW Seattle

- Enhanced quadruped's rolling ability on unfamiliar terrain using **reinforcement learning (RL)**
- Implemented PyTorch policies in OpenAI Gym for validation
- Strengthened problem-solving, research, and software engineering skills in real-world RL applications

UW + Amazon Summer Research Assistant

May 2022 – Sep. 2022

Amazon Robotic Manipulation Research Project

UW Seattle

- Developed web app, enabling communication between Amazon employees and robots for object retrieval
- Collaborated with controls and grasping teams to seamlessly integrate ROS API calls with my web app
- Final product rigorously evaluated, demonstrating **flawless performance** during Amazon's assessment

PROJECTS

Decision Transformer for Offline Reinforcement Learning | [Paper](#) | *Python, PyTorch, Gymnasium* May 2025

- Achieved CartPole-v1's performance ceiling (**199.9 ± 0.4** average return) when conditioned on RTG target of **200**, matching online Deep Q-Learning without environment interaction during training.
- Implemented a compact **250-line pipeline** featuring a **6-layer Decision Transformer** with **8-head attention** (128-d embeddings, 30-step context, \approx 180k parameters) trained on 2,000 random-policy episodes.
- Demonstrated efficient offline-to-online transfer by training the transformer model on a single **NVIDIA GPU** (RTX 2080 Ti) in under **18 minutes**, showcasing practical scalability of transformer-based offline RL approaches.

Fine-tuning HERMES for Mutational Effect Prediction | *Python, PyTorch, BioPython* Jan. 2025 - June 2025

- Curated mutation-effect datasets into standardized train/validation/test splits
- Generated structural inputs (zernikegrams) encoding 3D protein atomic neighborhoods
- Fine-tuned pre-trained HERMES model (rotationally equivariant NN) to predict stability and mutational effects

LLM Document Interpreter | *Python, LangChain, FAISS, Streamlit, OpenAI API, PyPDF2*

July 2023

- Implemented a system to extract text from PDFs and split it into chunks for processing
- Utilized OpenAI Embedding API and FAISS for document similarity search and information retrieval
- Created a LangChain LLMChain for question-answering based on relevant PDF content
- Built a user-friendly interface using Streamlit to allow users to upload PDFs and ask questions about their content

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS, C, MATLAB

Frameworks: React, Streamlit, Node.js, JUnit, Spark, Smithy

Developer Tools: Git, AWS, Azure, Postman

Libraries: PyTorch, scikit-learn, NumPy, pandas, LangChain, Matplotlib, Seaborn, plotly, Gym, MuJoCo, Jackson