

EDUCATION

Carnegie Mellon University, Pittsburgh, PA - 3.94 GPA

Expected May 2025

Bachelor of Science in Computer Science, concentration in Computer Systems

Courses Taken:

Distributed Systems, Competition Programming, Advanced Data Structures and Algorithms, Computer Security, Complexity Theory, Computer Systems, Functional Programming, Database Design, Human-Computer Interaction, Discrete Math, Probability, Linear Algebra.

TECHNICAL EXPERIENCE

Software Engineer Intern - Duolingo

May 2023 — Aug 2023

Pittsburgh, PA

- Developed an offline mode for practice lessons on the Android app. Deployed feature to 6 million users through a user experiment.
- Added new features to Duolingo's A/B testing framework for family plan subscriptions. Analyzed metrics from A/B testing.

Data Science Intern - Hora.AI

Jun 2022 — Aug 2022

Remote

- Explored improvements in customer service through sentiment analysis on 5000+ customer call recordings.
- Created a pipeline for transcription and sentiment analysis of call recordings to derive insights about callers.

Linux Programmer - Carnegie Mellon University

Feb 2022 — May 2022

Pittsburgh, PA

- Developed analytic tools and API for regression on time-series data from scientific experiments.
- Built these utilities for the Director of Scientific Computing to analyze variations in voltages from photovoltaic cells.

Research Intern - Pace Stock Broking Services

May 2020 — Jul 2020

New Delhi, India

- Conducted hypothesis testing through back-testing models on historical Banking Index data.
- Mined stock market index composition data from PDF reports and analyzed trends in the Banking Sector.

PROJECTS

Plant Leaf Disease Image Classifier - [GitHub Repo](#)

Sep 2022 — Sep 2022

- Developed a prototype for detecting diseases in plants using leaf pictures for the PennApps 23 Hackathon.
- Trained an image classifier using open-source data. Implemented an API in Python to process images and provide results to users.

Raspberry Pi TV Streamer - [GitHub Repo](#)

Oct 2021 — Nov 2021

- Built a Discord bot for streaming TV shows on a Raspberry Pi. Project converts a small computer into a portable streaming setup.
- Developed interface to issue commands to Discord bot to search for TV shows and select and stream shows.

ML for Worker Fall Detection + iOS app for alerts - [YouTube Demo](#)

Aug 2020 — Sep 2020

- Created a prototype of a motion-sensor mounted helmet for detecting falls. Collected and processed real-world time-series data.
- Sent alerts to an iOS app when falls were predicted using ML models trained on sensor data.

SKILLS

Languages	Python, JS, OCaml, C, C++, Java, Kotlin
Technologies	Flask, NodeJS, Numpy, Pandas, Scikit-learn, AWS
Others	Git, \LaTeX , SQL, MongoDB

HONORS & ACHIEVEMENTS

National Talent Search Examination

- Top 0.2% among 1,000,000+ students in Government-hosted Science and Math Exam. Qualified for lifelong academic scholarship.

Technothon @ IIT Guwahati

- Won national problem-solving competition (20,000+ participants) at IIT Guwahati. Awarded sponsored trip to NASA Goddard Center.

Student Council President

- Student Council President for batch of 920+ students. Made decisions representing the student body.

MOOCS

Stanford Machine Learning Course by Prof. Andrew Ng on Coursera

Deep Learning Specialization by deeplearning.ai on Coursera

- Series of 5 courses on Deep Learning. Covered CNNs, RNNs, hyperparameter tuning, and production ML.