

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, 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 Engineering Intern - Duolingo

May 2023 — Aug 2023

Pittsburgh, PA

- Currently working as a SWE Intern on the Duolingo Max team.
- Developing new features to improve the Android App and working on new features for User Experimentation.

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

OCaml Coreutils - [GitHub Repo](#)

Jul 2022 — Present

- Rewrote the GNU Core Utilities in OCaml to create cross-platform command-lines utilities. Project is in active development.
- Ported tools for common tasks like file, text, and shell manipulation. Employed functional programming patterns in development.

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++
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.