

EDUCATION

Carnegie Mellon University, Pittsburgh, PA - 4.0 GPA

MAY 2024

BS in Information Systems and Computer Science

• Current Courses

- 15251: "Great Theoretical Ideas in Computer Science" - Advanced CS Theory
- 15210: "Parallel & Sequential Data Structures Algorithms" - Parallel Algorithms & Data Structures

• Courses Taken

- 15213: Computer Systems – A
- 15150: Functional Programming – A
- 15122: Data Structures And Algorithms – A
- 21241: Linear Algebra – A

TECHNICAL EXPERIENCE

Software Engineering Intern - Hora.AI

JUN 2022 — AUG 2022

Remote

- Derived customer insights from the host of 5000+ customer call recordings.
- Created a pipeline for the transcription and sentiment analysis on call recording from customer service centers.
- Tools Used: Sentiment Analysis, NodeJS, AWS, Pandas.

Software Developer - Carnegie Mellon University

FEB 2022 — MAY 2022

Pittsburgh, PA

- Developed analytic tools and API for regression on time-series data from scientific experiments.
- Reported to the Director of Scientific Computing, Dr. Florin Manolache.
- Tools Used: Applied Regression Analysis, Flask, Numpy, Pandas, Scikitlearn, and Bash scripting.

Research Intern - Pace Stock Broking Services

MAY 2020 — JUL 2020

New Delhi, India

- Conducted hypothesis testing on Banking Index data through back-testing models on historical data.
- Mined stock market index composition data from PDF reports to analyze trends in the Banking Sector.
- Tools Used: Time Series Analysis, Data Mining, Numpy, Pandas, and Matplotlib.

PROJECTS

OCaml Coreutils - [GitHub Repo](#)

JUL 2022 — PRESENT

- Rewrote the GNU Core Utilities in OCaml. Project is in active development, and I am rewriting popular GNU utilities using OCaml.

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

OCT 2021 — NOV 2021

- Built a Discord bot for streaming TV shows on a Raspberry Pi. Commands can be issued to a Discord bot to search for TV shows and select and run streams. Project converts a small computer into a portable streaming setup.

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, SQL
Technologies	Flask, NodeJS, Numpy, Pandas, Scikit-learn, AWS
Others	Git, \LaTeX , 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.

Techonothlon @ IIT Guwahati

- Won the national problem-solving competition with 20,000+ participants at IIT Guwahati.
- Awarded a sponsored trip to the NASA Goddard Space Flight Center.

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 Convolutional and Recurrent Neural Networks.