

Anupam Pokharel

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EDUCATION

B.S. in Statistics & Machine Learning

CARNEGIE MELLON

Dean's List with High Honors in Fall 2020, Spring 2021

3.59 GPA (last two years)

Coursework: Imperative Computation, Functional Programming, Parallel & Sequential Data Structures & Algorithms, Intro. to Computer Security, Distributed Systems, Modern Regression, Advanced Data Analysis, Intro. to Machine Learning, Intro. to Deep Learning, Computer Networks, Parallel Computer Architecture & Programming

Pittsburgh, PA | Graduated Dec. 2021

WORK EXPERIENCE

IBM | FULL-STACK SOFTWARE ENGINEER

IBM Cloud

Austin, TX | Aug. 2022 -

- Working as one of three members of a squad tasked with developing new features, addressing problems and requests for improvements, and maintaining operating and security/compliance standards for the CLI of IBM Cloud and its integration with plug-ins developed by other teams, primarily by way of submitting and providing reviews for pull requests on the program's codebase

IBM | SOFTWARE DEVELOPER

Competitive Insights (which subsumed CPO from Summer 2021)

Poughkeepsie, NY | Feb. – Jul. 2022

- Continued and completed work on Summer 2021 projects
- Led a project on Power Systems: designing a fully automated stack for comparing shared processing adjustments by hypervisor firmware with resource-scaling by Openshift's HPA during erratic load surges created by a suite of bootstrapped applications and virtual user activity profiles that leveraged Summer 2021's work

IBM | BACK-END DEVELOPER INTERN

Competitive Project Office (CPO) in Cloud and Cognitive Software Division

Remote | May – Aug. 2021

- Mainly worked on project to benchmark systems orchestrated by Openshift on two architectures – IBM z/Arch. and Intel x86 – during I/O- & CPU-bound workloads (executed using a containerized Flask upload/download microservice for IBM Aspera coded from-scratch), via Javascript code generating variable emulated user activity

CARNEGIE MELLON UNIVERSITY | UNDERGRADUATE TEACHING ASSISTANT

Department of Math

Pittsburgh, PA | Feb. – May 2021

- Led weekly recitations to review course material and co-conducted grading for the Spring 2021 offering of 21-120: Differential and Integral Calculus

PROJECTS

NUTR-EZ NUTRITION AID

Project Exhibition (Devpost) PYTHON3, HTML | SEPT. 2020

Leveraging statistical inference and ML techniques, this nutrition tool – hosted on a localhost web server developed from scratch – generates personally-tailored, profile-specific meal recommendations that adapt to user approval or critique

PARALLELIZED INFERENCE ON RNNs

Project Exhibition (GH Pages) C++, CUDA, BASH | DEC. 2021

A project that explores the speedups attainable by parallelizing some parts of inference- time Recurrent Neural Network (RNN) computations, at varying extents of compromise on accuracy

SKILLS

Languages: C++, C, Python (frequent work Numpy, Pandas, Flask, Requests, OpenCY, and PySimpleGUI libraries), Golang, Java, Javascript, Intel x86 Assembly, Standard ML of NJ, R/SQL (for collating and querying large datasets)

Technologies and Professional Tools: Git and Github, AWS (EC2, mainly for GPU-accel. model-training), Docker and Dockerhub, Setup and Use of Hypervisors (e.g. PowerVM and z/VM), K8s and Openshift (esp. for automated architecting with CLI)

Conceptual and Technical Proficiency In: Hardware virtualization, Networking protocols and security, RESTful principles and API design/use, Data structures & algorithms, Concurrency considerations (synch., mutex, etc.)