

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, Computer Vision, 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

Cloud

Austin, TX | Aug. 2022 -

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

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 a 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 | 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 – supported by emulated server/storage on localhost – 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

Technologies and Professional Tools: Git and Github, Docker and Dockerhub, CI/CD (e.g. Jenkins and Travis), Cloud resource mgmt/provisioning (mostly on IBM Cloud & AWS EC2), Setup/use of hypervisors (z/VM), Container orchestration (k8s, Openshift)

Languages: C++, C, Golang, Java, Javascript, Ruby, Shell scripting, Intel x86 Assembly, Standard ML of NJ, Python (frequent work with Numpy, Pandas, Flask, Requests, OpenCV, and PyTorch libraries), as well as more data-centric experience with R and SQL

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