

ANKITA KALKAR

Looking for Entry level/New Grad opportunities

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📍 Ashburn, VA



EDUCATION

Double major in Electrical and Computer Engineering & Robotics

Carnegie Mellon University

📅 08/2019 - 05/2023 📍 Pittsburgh, PA

EXPERIENCE

Technology Consultant in the Cloud Innovation and Engineering Team

Pricewaterhouse Coopers LLC

📅 06/2022 - 08/2022 📍 New York City, NY

- Developed application modules using React Native to integrate features from existing applications
- Analyzed legacy applications to refactor into Android and iOS applications to support mobile computing
- Worked with Tech Lead to conduct daily stand-ups and sprint retrospectives with offshore development team of 8

InStep Software Engineering Intern

Infosys

📅 06/2021 - 08/2021 📍 Virtual

- Researched various quantum computing and quantum mechanics principles within the Quantum Finance field
- Developed a Quantum Python program to extract unstructured financial data using the Natural Language Toolkit library
- Used Qiskit (IBM's official Quantum Computing software) to develop proof of concept solutions to QUBO optimization problems
- Analyzed various machine learning and neural network techniques on classical and quantum computers to improve efficiency and observe computational differences

Software Developer Intern

CosmoQuest (start-up)

📅 06/2020 - 08/2020 📍 Virtual

- Worked on developing Citizen Science Builder Software which stores and organizes visual data and images provided by NASA using LAMP stack (Linux, Apache, MySQL database, PHP programming language)

Supplemental Instruction Leader for 21-259: Calculus in Three Dimensions

Carnegie Mellon University

📅 08/2020 - 06/2022 📍 Pittsburgh, PA

- Led content review sessions of 15-20 students that covered various multivariable Calculus concepts
- Engaged students by creating packets and designing activities to stimulate virtual learning

Teaching Assistant for 18-100: Intro to ECE

Carnegie Mellon University

📅 08/2020 - 12/2020 📍 Pittsburgh, PA

- Managed groups of 5-6 students and met bi-weekly to review material covered in lecture
- Performed various lab demonstrations of basic ECE systems and assisted in the grading and formulation of labs, homework, and exams

FIND ME ONLINE

in LinkedIn

www.linkedin.com/in/ankita-kalkar-1223bb1b3

TECHNICAL SKILLS



PROJECTS

Head TA for 16-311 Robotics Lab

📅 04/2022 - 05/2022

- Led 10 TAs in organizing and building a student-designed robotics lab
- Oversaw the ideation of the lab, construction of the course, write-up, class competition, and grading of demos
- Connected with professors and lab techs to ensure lab feasibility

CMU COVID Innovation Project

📅 06/2020 - 08/2020

- Analyzed and compiled statistics on the widespread impact of COVID-19 in the US on minorities to highlight systematic inequalities in the medical system
- Led the development of an ML-based application using the ARIMA technique that could predict outbreaks based on racial and socio-economic factors

Spotify Playlist Maker (personal project)

📅 06/2021 - 07/2021

- Used Spotify, a Python library for Spotify's Web API, and flask to create a program that takes multiple people's usernames and creates a playlist that combines each user's unique music taste and prints a compatibility score.

15-112 Term Project

📅 04/2020 - 05/2020

- Independently developed an audio-visualizer game of approximately 1000 lines of Python code in Processing Programming Environment
- Implemented a slightly modified Fast Fourier Transform algorithm to isolate various attributes from the sound wave