

ROHINI DAS SOFTWARE ENGINEER INTERN

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in rohini-das0724

📄 Rohinidas04

Computer Science Major at CMU

Skills

PROGRAMMING LANGUAGES

Python

C

Java

HTML/CSS

Javascript

PHP

SQL

Latex

Swift

TOOLS/Frameworks

NumPy

PyTorch

SciPy

Git

Sklearn

Pandas

OpenCV

Unix Command Line

Tkinter

Jupyter Notebook

Matplotlib

COURSEWORK

15-122 Principles of Imperative Computation

15-150 Functional Programming

15-251 Theoretical Computer Science

15-151 Mathematical Foundations of Computer Science

15-112 Fundamentals of Programming

Education

Carnegie Mellon University
Bachelor of Computer Science
GPA : 3.9/4.0

Aug. 2022 to Current

Employment

Cisco Meraki

Software Engineer Intern

- Creating API endpoints using Ruby and Golang within the Meraki system to automate the process of manually removing user data across the Meraki system
- Extending monitoring and debug-ability into Meraki SD-WAN product line's control plane

San Jose, California (Remote)
Aug. 2023 to Current

Cisco Systems

Software Engineer/Technical Sales Engineer Intern

- Developed a Webex notification chatbot that utilizes ThousandEyes to detect malicious attacks and alert customers through Webex Teams (Cisco Hackathon 2nd place)
- Chatbot queries through ThousandEyes UI and analyzes data regarding latency speed, page load time, proxy loss, and proxy jitter; sends customer useful information collected on Thousand Eyes
- Collaborated on customer meetings while developing technical presentations to pitch Cisco services to clients (direct team produced 65M in sales)
- Programmed a Python-based linear algorithm that optimized sales engineer assignments for the quarter goal of \$134M. Algorithm considers variables such as individual sales targets and geographic proximity while maintaining equitable distribution of sales among engineers

Raleigh, North Carolina
May 2023 to Aug. 2023

IoT Sales Intern

- Designed a healthcare app using Python and Swift that incorporated AI algorithms to match users with nearby hospitals based on location and symptoms
- Gained hands-on experience in networking technologies such as routing, switching, IP addressing, LAN/WAN, and firewalls through shadowing Cisco employees
- Directed the Cisco Networking Academy, assisting over 200 externs in passing the Intro to IoT certification
- Selected as one of 20 interns countrywide, with an acceptance rate of approximately 10%

Herndon, Virginia
May 2022 to Aug. 2022

University of Pennsylvania - Penn Center for Learning Analytics

Machine Learning Research Assistant

- Developed Machine Learning (ML) detectors using Python through text-replay coding that mined students' interactions with intelligent systems to detect gaming and confusion emotions
- Built Knowledge Tracing models (BKT,PFA,DKT,DKVMN) using Java, Python, pandas, PyTorch, and NumPy to predict student knowledge in skills
- Co-authored three research papers accepted into AIED and EDM 2021 Conferences. Awarded best runner-up paper at EDM; 1 of 7 papers selected worldwide for W4U EDM Conference; see EDM paper here; see AIED paper here

Philadelphia, Pennsylvania
Aug. 2020 to Aug. 2022

SMC Digital Marketing

Software Engineer Intern

- Created company website for consumers that included chatting service and live dashboard using HTML, CSS, Javascript, and SQL
- Queried data from SQL and generated datasets for AI algorithms that helped clients identify options to increase their company sales; helped raise 1M in sales

New York City, New York
May 2020 to Aug. 2020

Projects

Secure Autonomous Vehicle Communication | Solidity, Mongo

- Created a blockchain-based solution for secure V2V communication using Raspberry Pi in a simulated environment, ensuring data integrity and establishing a scalable framework for future applications
- Utilized Solidity to code smart contracts that verified the authenticity of Pi location data, ensuring the detection of suspicious behavior
- Conducted 60 trials including instances of suspicious and no suspicious behavior, and observed a 97% rate in validating Pi locations
- 1 of 5 projects selected countywide for national JSHS Competition

TartanHacks: Emote | Python, pandas, NumPy

- Coded a user-friendly therapeutic drawing interface with Python that generates a customized canvas with colors tailored to the user's emotion; resulted in a 50% increase in user-generated content
- Implemented advanced functionality, including seamless color switching, effortless erasing, and adjustable drawing tool size, using a convenient slider
- Used BeautifulSoup and pandas to find image urls for inputted emotion and utilized ColorThief to find dominant color in each image URL; created a dictionary of emotions with corresponding dominant colors

TartanHacks: Rohini's Creamery | Python, pandas, OpenCV

- Developed an interactive ice cream game using Python and pandas where players are tasked with fulfilling random orders from multiple customers
- Designed and built buttons, sliders, and drag-and-drop functionality using Tkinter library to make batter, scoop ice cream, and add toppings
- Integrated pandas to implement a point system where players earn points to advance through three levels within a specified time limit
- Implemented additional features such as individual timers for each customer, varying difficulty levels based on score, a splash screen, and a grid view

Pagerank Algorithm | Julia

- Constructed Pagerank and HITS algorithm through Julia programming language with 1000+ lines of code
- Ranked websites based on links that each website contained within its page
- Built a Chrome extension that accurately determined damping factor, the proportion of times that pages are changed by clicking through links over the total number of page changes, and improved Pagerank algorithm

The STEMinist Stories | HTML, CSS, Javascript, PHP

- Founded organization to inspire girls to choose STEM by interviewing 20+ women in STEM and sharing their success stories; inspired 75+ girls to pursue STEM careers, resulting in a 20% increase in female enrollment in local STEM magnet school
- Self-coded five-page responsive website with navigation menu; access website here

Certifications

AWS Certified Cloud Practitioner | Amazon Web Services (AWS) | Aug '23