Anubhav Dinesh Patel

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EDUCATION

Indian Institute of Information Technology, Kalyani - West Bengal, India
Bachelors in Technology (B. Tech.) - Computer Science and Engineering
Graduation Date: May 2021
Cumulative GPA: 9.6

WORK EXPERIENCE

Google Summer of Code (with Python Software Foundation)

Python, Tox, Scrapy, Travis CI

- Implemented an interface for robots.txt parsers in Scrapy (a web-scraping framework), allowing its 270k+ users to substitute a more spec compliant parser than the default one.
- Developed a pure-Python robots.txt parser compatible with Google's newly proposed revision of robots.txt specification. Over 2.6k+ Github projects depend on it.

Indian Institute of Science - Research Intern at Robotics Innovations Lab

OpenCV, Keras, Deep Learning, Computer Vision.

- Utilized ResNet-50 based CNN along with data augmentation and transfer learning to classify items for an automatic warehouse inventory management system.
- Wrote a research paper that will be published at ICCAS 2020.

Bomway - Full Stack Developer Intern

Flask, MongoDB, Bootstrap, Python, JavaScript, HTML, CSS

- Implemented a shopping cart with support for multiple payment gateways, discounts, international shipping cost calculation, and an elegant user interface, which resulted in savings of $3000 every year by replacing a third-party cart plugin previously used.
- Implemented a service to lazily resize images on user request with Amazon S3 as the storage backend

PROJECTS

Linux's Ping Command Clone - Link

C++, Linux System Calls, Computer Networks

- Created a Linux ping command clone supporting both IPv4 and IPv6 protocols with the goal to enhance my understanding of ICMP protocol and Linux kernel internals.

Full-Text Search and Indexing Server - Link

Golang, Mux

- Created a service to search for words, inside a large quantity of text spread across multiple documents using an inverted index.
- Utilized it to create a service for searching inside a large number of research papers on my college's local network.

URL Shortening Service - Link

Python, Redis, Postgresql, SQLAlchemy, Flask, Docker

- Created a URL shortening microservice built on top of Redis and Flask, utilized Postgresql as a persistent store to mitigate data loss due to failures.
- Utilized docker to containerize the service and allow for easy deployment.

Virtual Reality Playground - Link

A-frame, Google Cardboard, JavaScript, HTML, CSS

- Created a virtual reality-based visual programming language (similar to Scratch) for creating 3D stories, animations, and games, with the primary objective to help children in learning fundamentals of computer programming.

ACHIEVEMENTS

- Ranked **256th in Google Kickstart** Round D 2020 worldwide.
- **Candidate Master on Codeforces** and **5 stars rated user on Codechef**.
- Ranked 96th among 350 teams at ICPC Asia Amritapuri Site 2019.
- Awarded Bertelsmann Tech Scholarships among 50k+ applicants worldwide.
- Among the top 50 students nationwide in IIIT Hyderbad's Lateral Entry Entrance Examination.

SKILLS

Python, C/C++, Go, SQL, MongoDB, Linux, Flask, Django, OpenCV, Git, Assembly, LATEX, Bash.

HACKATHONS

- **InOut 6.0 -** Among the top 75 teams selected to attend the onsite event.
- **HackABit 2018 -** 6th prize winner (out of 50 teams).

CERTIFICATES

- 2019   Udemy   Web Development with Go Programming Language
- 2019   Udemy   Natural Language Processing in Python
- 2018   NPTEL   Design And Analysis of Algorithms
- 2018   NPTEL   Programming, Data Structure And Algorithms in Python
- 2018   NPTEL   Programming, Data Structure And Algorithms in C