Anubhav Dinesh Patel

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WORK EXPERIENCE

Tower Research Capital - Software Engineer I, Engineering Productivity (July '21 to Present)

C/C++, Python, Postgres, MongoDB, Behave, BDD, TDD

- Implemented features for the next release of Tower's internal source control and release management tool.
- Built a KPI dashboard for internal QA efforts
- Built a slack bot to deliver insights from the dashboard within each team's slack channels.

Gojek Tech - Software Engineering Intern, Ad Tech - (Jan '21 to July '21)

Elixir, Phoenix Web Framework, Open API

- Worked with a senior engineer to deliver a new ad inventory type catered towards FMCG brands, providing them the option to run banners on the GoFood homepage. Following the delivery, 5000+ global and local brands on-boarded on it.
- Used internal tools & infrastructure to automate the invoice delivery for merchants.
- Utilized Open API spec to document the Ads System API, automating the generation of API clients (SDKs), stubs, and mocks for it in 50+ languages.
- Built the instrumentation pipeline for recording the metrics around the events (views/clicks) received by campaigns past their limit. I created a Grafana dashboard for the same.

Google Summer of Code - Student Developer (PSF)

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 and published it at ICCAS 2020.

EDUCATION

Indian Institute of Information Technology, Kalyani - West Bengal, India

Bachelors in Technology (B. Tech.) - Computer Science and Engineering
Graduated **July 2021**
Cumulative GPA: 9.68 | **Department Rank 1**

PROJECTS

CodeChef Practice Tool - Link | Live Demo

PHP, React, MySQL, Relational Database Design, Web Scraping

- Built a web app to help competitive programmers search problems on CodeChef using problem tags. Deployed the app online with the help of Azure and Heroku.
- Scraped the CodeChef website, downloaded problems and tags, stored it in a MySQL database to overcome the lack of a public API.

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.

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.

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 the fundamentals of computer programming.

ACHIEVEMENTS

- Ranked **122**, **256**, **291 in Google Kickstart** rounds globally.
- **Candidate Master on Codeforces** and **5 stars rated user on Codechef**.
- Ranked 96th among 350 teams at ICPC Asia Amritapuri Site 2019.
- 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.

PUBLICATIONS

- Vision-based Object Classification using Deep Learning for Inventory Tracking in Automated Warehouse Environment - 2020 20th International Conference on Control, Automation and Systems (ICCAS) | **Best Student Paper Finalist**