

PANKAJ PARMAR

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Work Experience

Tarana Wireless Inc.

📍 Pune, Maharashtra

Software Engineer 1

📅 July 2021 - Present

- Collaborated in designing and developing various components of Tarana Cloud Service (TCS), an operator portal focused on efficient management of Tarana networking devices.
- Architected the Tarana Spectrum Access Server from the ground up, enabling seamless support for up to **10 million** Tarana CBRS devices. This cutting-edge solution played a pivotal role in the scale testing of TCS for CBRS devices, leading to remarkable cost savings of around **1 million USD** by obviating the requirement to procure Google-test SAS. [Python, FastAPI]
- Implemented automation for high-priority end-to-end scenarios, resulting in a notable acceleration of software release cycles—from quarterly to biweekly. This transformation led to a remarkable **75%** reduction in manual testing efforts for both manual testers and solution engineers every release. [Python, Unittest]

Bageera - The Resource Hub

📍 Remote

Android Developer

📅 May 2020 - June 2020

- Designed and developed a feature-rich Android application for controlling their proprietary smart appliances, showcasing an intuitive user interface and seamless device integration.

Education

Netaji Subhas Institute of Technology

📍 New Delhi

Information Technology Engineering

📅 August. 2017 – May 2021

Technical Skills

- **Programming Languages :** C++ (Proficient), Python (Proficient), Java, HTML, CSS, JavaScript (Basic)
- **Tools :** MicroServices, REST APIs, Fast API, Flask, Apache Kafka, Kibana, SpringBoot, AWS, ElasticSearch, Docker, Kubernetes, Git, Linux
- **Coursework :** Data Structures and Algorithms (Proficient), Object Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Information Security, Artificial Intelligence, Neural Networks (Familiar)

Coding Projects

Time Analysis of DataBases

📅 July 2020 - Aug 2020

Python | MySQL | SQLite | PostgreSQL

- Conducted analysis of response times across different databases in a shared environment. Additionally, devised a heuristic-based recommendation system to guide users toward the optimal database choice.

Chess AI

📅 Nov 2019 - Dec 2019

C++ | Min-Max Search

- Wrote a chess engine in C++ from scratch that produces best moves against an opponent using algorithms like alpha-beta pruning, iterative deepening, quiescence search, free from problems like the horizon effect.

Modelling SDN using Graph Neural Networks

📅 June 2019 - July 2019

Python | Pytorch

- Built a QoS-aware system to predict per path delay given any software-defined network and routing information.
- Uses message-passing neural networks on bipartite graphs extracted from topology and achieves a Mean Absolute Prediction Error of 1.66%

Achievements

CodeChef [pankaj_parmar](#)

- Max Rating: 1884 (4 STAR Coder)
- Secured global rank 119/4902 in November Lunchtime 2020.
- Secured global rank 176/7615 in December Cookoff 2020.

CodeForces [Black_Bird](#)

- Max Rating: 1704 (EXPERT)
- Secured global rank 184 / 13965 in CodeForce Round #640.

Scholastic

- AIR – 3866 among 1.2 million candidates, top 0.2 percentile (JEE)
- Achieved 16th Place in the District, Class 12th Board Examination