

Pushpakant Behera

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Technologies

Languages: C/C++, Go, Typescript, SQL, HTML, CSS, JavaScript, Kotlin, Python

Technologies/Libraries: NextJS, ReactJS, NodeJS, Apache Kafka, Redis, WebRTC, AWS, GraphQL, Protocol Buffers, gRPC

Tools/Applications: Docker, Kubernetes, Helm, Git, Github, Terraform, VSCode

Experience

Associate Software Developer, Oracle – Bangalore, Karnataka August 2023 – Present

- Engineered a robust framework for **real-time WebRTC statistics retrieval on Android**, extracting critical metrics (jitter, packet loss, RTT, FPS, frame dimensions) and reducing debug time by **75%**.
- Redesigned media streaming architecture by **decoupling audio and video publishing** using Kotlin coroutines, cutting reconnection failures by **60%** and boosting bandwidth utilization by **45%**.
- Implemented noise suppression with **SIMD** support in C++—using a **RNN** for intensive noise cancellation and deploying via **WASM** for browser environments—which achieved a **80%** improvement in processing speed (reducing latency from 60ms to 12ms per frame) and a **45%** reduction in CPU usage.

Project Intern, Oracle – Hyderabad, Telangana February 2023 – July 2023

- Designed and implemented a fully-integrated **WebRTC video conferencing platform** that allows real-time video, audio and messaging communication.
- Collaborated with a team of developers to optimize performance and scalability, integrating advanced features such as **screen sharing** and **recording capabilities**.

Projects

ShopTrackr Project Link

- Architected a scalable event driven micro-service architecture for automated eBay scraping using user-defined criteria, with services communicating via **gRPC** and **Protocol Buffers** for efficient data serialization.
- Built a custom Go-based scheduler and **Python Scrapy** workers, orchestrated via **Kafka** for real-time job handling and multiprocessing.
- Deployed on **AWS EKS**, leveraging **Karpenter** and **KEDA** for dynamic scaling based on load, ensuring optimal resource use and performance.
- Tools Used:** Go, Python, Kafka, Keda, gRPC, Protocol Buffers, Docker, Kubernetes, Helm, AWS, Terraform

Typeracer Project Link | Code Link

- Developed a **multiplayer** typing game with **real-time feedbacks** to user events.
- Implemented a **real-time leaderboard** system with metrics such as WPM(Word Per Minute), rank, and percentage of words completed.
- Tools Used:** Angular, NodeJS, SocketIO, Docker, MongoDB

Awards and Recognition

- Received the **Matt Beal Award for Brightest Beginner** for single-handedly onboarding multiple clients by delivering a compelling POC for the usage of the real-time communication system.
- Placed **1st/25** in the Autonomous Robotics Competition.
- Ranked **2388th/16330 Leetcode Biweekly Contest 75**.
- Solved more than **3000** data structures and algorithms questions on various coding platforms.

Education

National Institute of Technology, Jamshedpur, B.Tech. in Computer Science and Engineering August 2019 – June 2023

- CGPA:** 8.49/10.00
- Coursework:** Object Oriented Programming, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks