Mohammed Nihad K P

Kerala, India · mohammednihadkp7@gmail.com · +91 9846556109 · linkedin.com/in/mohammed-nihad

EDUCATION

APJ Abdul Kalam Kerala Technological University   **Kerala, India**
Bachelor of Technology in Computer Science, GPA: 9.13/10   **Aug 2018 - Jun 2022**
Relevant Coursework: Operating System, Data Structures and Algorithm, Principles of Database Design, Data Mining and Warehousing, Cloud Computing, Machine Learning, Distributed Computing, Programming Paradigms, Compiler Design, Computer Network.

WORK EXPERIENCE

Captain Fresh   **Bangalore, India**
Software Developer   **Mar 2023 – Present**
- Designed and deployed **Kubernetes clusters from scratch** on AWS, setting up networking with **VPC, subnets, security groups, and load balancers** for highly available applications.
- Migrated all deployments to **ArgoCD**, enabling **declarative, automated deployments**. Developed end-to-end **CI/CD pipelines** using **GitHub Actions**, streamlining software delivery and infrastructure updates.
- Implemented **Grafana, Prometheus and Loki**, optimizing observability and alerting for real-time system health tracking. Integrated **Fluent Bit** for efficient log collection.
- **Contributed to a team of three** in designing and building **ChopServe**, an **omnichannel retail platform** serving **fresh fish, seafood, and meat**, using **Golang and GraphQL** to support **multi-channel sales** across **retail, WhatsApp, ONDC**, etc.
- **Designed and developed a cash-management service**, providing **end-to-end tracking and tracing of payments** involving various stakeholders. Improved **transparency** in the process, effectively **eliminating instances of cash mishandling**.

Esper   **Bangalore, India**
Software Development Engineer   **Aug 2022 – Feb 2023**
- **Teamed up with the Innovation team** to develop **proof-of-concept projects**, including **simulating a Raspberry Pi 4 as a mouse and keyboard** for **end-to-end automated mobile testing**, resulting in **over 40% reduction in testing time**.
- **Engineered a bookmark feature** within the context of **remote Android Debug Bridge (ADB)** for a **Tier 1 client**, enabling users to utilize **custom named presets for ADB commands**, leading to a **70% improvement in command efficiency**.

Ansys   **Remote**
R&D Engineering Intern   **Mar 2022 – Jul 2022**
- **Worked on the project "Physical Layout Modeling – New Feature Support in Ansys Totem GDS2DB Module". Identified and resolved several critical bugs**, resulting in **over 20% increase in efficiency**.
- **Optimized the existing code base**, applying various methods including **memory optimization and algorithmic enhancements**, leading to a **24% increase in processing speed**.

Progress Software   **Remote**
Software Engineer Intern   **Aug 2021 – Dec 2021**
- Contributed to the **"Autonomous REST Connector Recipes"** project, enhancing **connectivity with diverse SaaS applications** by creating **REST configuration files** through the **in-depth analysis of RESTful APIs. Reduced integration issues by 31%**.
- Developed comprehensive **test cases** utilizing **TestNG** to **validate effectiveness and reliability**, ensuring **error-free implementation**.

PROJECTS

Live ASL | Automatic Sign Language Translator
- Collaboratively **designed and implemented an American Sign Language (ASL) interpreter** for popular meeting platforms like **Zoom and Google Meet**, training a **multi-layered random forest (MLRF) model** on a dataset of **over 10,000 phrases**.
- Achieved an **accuracy of 96%** in **translating sign language to text and audio speech**.

Plastico | Mobile Web Application
- Played a pivotal role in developing **Plastico**, a **mobile web application** that revolutionizes **plastic and bio-waste procurement** through integrated logistics services, grading systems and tracking functionalities using **ReactJS, NodeJS and Firebase**.
- Secured **3rd prize** in a **National-level Hackathon**, underscoring project's innovation and environmental impact.

AutoTrack | Automatic Attendance System
- Engineered a **face recognition system** utilizing **Convolutional Neural Networks (CNN)** in conjunction with **OpenCV,** achieving an **accuracy of 95%** across diverse conditions.
- Developed an user-friendly interface using **ReactJS and Flask** to streamline the attendance tracking process.

SKILLS

Golang, C++, Java, ReactJS, NodeJS, Typescript, SQL, NoSQL, Python, Git, AWS, Docker, Kubernetes, OpenCV, Keras, ArgoCD, Grafana