Ram Mankar

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EDUCATION

Bachelor of Engineering in Computer Science   Aug 2016 – Apr 2020 | Pune, India
Savitribai Phule Pune University (CGPA: 8.1/10)
Course Work: Data Structure, Algorithms, Computer Networks, Operating System, Database Management, Data Mining, Artificial Intelligence, Machine learning, Web Development.

PROFESSIONAL EXPERIENCE

Software Engineer   Jun 2022 – Present | Chennai, India
Tazapay
- Implemented Asynchronous APIs using Golang for more than 10 payment methods across 173 countries.
- Developed a smart system that helped users to create multiple wallets based on country-currency combinations on a single bank account.
- Built customer support ticket service using Golang, Postgres and AWS services, which helped customers raise queries to the support team and provided automated feedback on the complete ticket life cycle.
- Designed an Entitlement service which helped to enable or disable features for customers and to streamline billing for feature usage.
- Mentored Intern developers to develop internal tools to monitor infrastructure which improved overall development experience in the organization.

Software Engineer   Jul 2020 – Jun 2022 | Pune, India
ConnectWise
- Designed and built a File Transfer Service in Golang to fetch health reports of applications from 1 million devices daily.
- Contributed to an application that enabled users to remotely access Windows, Linux and Mac machines via GUI and Terminal interface.
- Integrated multiple Cloud Services with ConnectWise Command Platform, this integration allowed users to access 100 plus features in a single application.
- Programmed a mechanism using a multi-processing algorithm to fetch data of 100k machines every hour from a rate-limiting server to provide near real-time user experience.
- Led an agile team to plan and execute the depreciation of legacy applications from 1 million devices.
- Involved in information gathering from customers and capacity planning to draft a comprehensive plan for product delivery.
- Conducted sessions in the organization to advocate the use of microservice architecture, Docker, Kubernetes, software monitoring tools and best practices for Cassandra data modelling.

ACADEMIC PROJECTS

Computer Vision Application   Jan 2020 – Apr 2020
Inspection of Metal Parts
- Built a system to automate the inspection and classification of metal parts using Machine Vision and CNN techniques with 95% accuracy at 45fps speed.
- Applied various image processing techniques like Acquisition, Enhancement, Restoration, Compression and Segmentation to create an accurate training dataset.
- Implemented and compared two algorithms, viz., YOLO v3 and faster R-CNN w.r.t. our dataset for real-time object detection and classification.
- Designed the user interface and different functionalities of the project using Python and Tkinter library.

Android Application   Feb 2019 – May 2019
Dining Service Management
- Designed mobile applications using android SDK, JAVA, SQLite to maintain records of customers.
- Implemented a notification service which sent text SMS to customers based on configured conditions for subscription, pending bills, available menu, etc.
- Integrated payment options for Dinning Manger to send or recieve payments and keep track of all the transactions.

PUBLICATIONS

Inspection of metal parts based on CNN using YOLO Network 🔗   Apr 2020 | Pune, India
International Journal of Future Generation Communication and Networking
- Analyzed different object detection algorithms viz YOLO v3, RCNN and Faster-RCNN to find the best suitable for metal part detection.
- Collected data samples by visiting industries to perform a comprehensive analysis of data models.
- Presented a thorough review of YOLO v3 to detect and classify metal parts as correctly classified parts, missing parts, misplaced parts, defective parts, etc.

TECHNICAL SKILLS

Languages: Golang, Java, Python, C++
Cloud: AWS [ECS, EC2, Lambda, S3, DynamoDB, VPC, IAM, SNS, SQS]
Databases: Cassandra, PostgreSQL, MongoDB, MySQL
Web Development: HTML, CSS, Javascript
Other: Kafka, Redis, Docker, Kubernetes, Shell/Bash Scripting, Git, Unix.

CERTIFICATIONS

Golang Certification 🔗   Sep 2021
Hacker Rank

Google Python Crash Course 🔗   May 2021
Coursera

EXTRA-CURRICULAR

Head Co-Ordinator   Jan 2019
SITS Techtonic Event 2019
- Organized activities based on themes which connect to problems faced by society.
- Promoted events at 15 colleges of Sinhgad Institutes and other colleges in Pune.
- Coordinated with logistics, finances, venue, event planning and closeout.