

TAPESH JOHAM

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tapeshjoham

PROFESSIONAL EXPERIENCE

Freelance Software Engineer

Internet Business Japan, Tokyo

April 2021 – Ongoing Remote

- Working with IBJ and Kanagawa Institute of Technology Japan, to implement IoT applications for ECHONET Consortium
- Developed a web application and ECHONET controller service for monitoring and controlling appliances using ECHONET lite protocol
- Tech used: Node.js Express.js Vue.js Bootstrap

Software Development Engineer (SDE) II

Setu

April 2020 – March 2021 Bangalore, India

- Worked on end to end development of micro-services with Google Pay team to develop India's first fully digital deposit app
- Worked with major Indian banks like ICICI, Axis bank, to integrate APIs and provide a common interface for financial products like payments and deposits
- Worked on several platforms, CI/CD, and tooling tasks for optimizing workflows
- Tech used: Swagger Python Flask PostgreSQL Docker AWS

Software Developer

ITRA, Japan

July 2018 – March 2020 Bangalore, India

- Designed and developed a peer-to-peer coding editor platform with multi-language support WebRTC
- Worked with multiple clients to design and develop a web-based adaptive learning platform for Japanese High school
- Created immersive VR and MR applications to showcase the real estate properties on the devices like Oculus Rift, Oculus Go, and Magic Leap One
- Tech used: Python JavaScript Golang HTML CSS JIRA MongoDB Docker AWS UE4 Unity ML

Software Engineering Intern

Khosla Labs

Dec 2016 – Feb 2017 Bangalore, India

- Wrote micro-services and spark jobs for computing different feature vectors, which were then fed to Machine Learning Pipeline
- Automated the data scraping process of users from different social networking sites like Facebook, Twitter, etc. using python libraries
- Tech used: Spark Cassandra Python ML Bash

OTHER EXPERIENCE

AWC Project

Amazon

Mar 2017 – Apr 2017 Hyderabad, India

- Analyzed Amazon's item database containing billions of records with incoming real-time updates, to show top products based on some predefined criteria
- Used AWS Kinesis for streaming data, HBase for storage, and HiveQL for computation on the AWS Elastic MapReduce cluster

EDUCATION

M.S. in Data Engineering and Analytics

Technical University of Munich

April 2021 – Present Munich, DE

B.Tech in Computer Science and Engineering

Indian Institute of Technology (IIT) Mandi

2014 – 2018 Mandi, India

SELECTED PROJECTS

Hosting heterogenous containerized Servers/App platforms on a physical server

- Docker container-based cluster to host heterogeneous servers with performance load balancing via Nginx
- Used Docker-compose to link docker containers implementing frontend and backend platforms
- Wrote scripts for balancing the request load to increase the availability of sporadic requests

Unsupervised Deep Hashing for biometric modalities

- Worked on generating binary hash-code from a given image using an unsupervised deep learning model
- Trained a Siamese like network with multiple losses to account the variations in the FVC dataset

TECH STACKS

Programming Languages

Python (Primary) Bash (Primary)
Node.js (Secondary) C C++ Golang

Linux AWS Docker Vue.js
HTML CSS MySQL Mongo
Redis Pytorch Tensorflow

ACTIVITIES/INTERESTS

- Special interests in pure mathematics, Algorithms and data structures design, Complex systems, Complex networks
- Really likes to travel
- Chess and FPS games