

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 for monitoring and controlling appliances using ECHONET protocol [Vue.js, Node.js, Bootstrap]
- Implemented REST APIs and controller to interact with devices with ECHONET Lite protocol [Node.js, Express.js]

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 [Python, Docker, AWS]
- Worked with major Indian banks like ICICI, Axis bank, to integrate APIs and provide a common interface for financial products for payments and deposits [OpenAPI, Python, Flask, PostgreSQL]
- Worked on several platforms and tooling tasks for optimizing the workflows

Software Developer

ITRA, Japan

July 2018 – March 2020

Bangalore, India

- Designed and Developed a peer-to-peer coding editor platform with multi-language support [Golang, Docker, Javascript, WebRTC, MongoDB]
- Designed and Developed a web-based adaptive learning platform used for Japanese High school [Golang, Javascript, AWS, MongoDB]
- Created immersive VR and MR Applications to showcase the real estate properties on the devices like Oculus Rift, Oculus Go, and Magic Leap One [Unreal Engine 4, Unity, Deep learning]
- Utilized technologies like C++, Go, Python, JavaScript, HTML, CSS, JIRA, Confluence for various projects

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 [Spark, Cassandra, Python, ML]
- Automated the data scraping process of users from different social networking sites like Facebook, Twitter, etc. using python libraries

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

B.Tech in Computer Science and Engineering

Indian Institute of Technology (IIT) Mandi

2014 – 2018

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 front-end and back-end platforms
- Implemented Nginx 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

STRENGTHS

Data structures

Algorithms

Linux

Python

AWS

Node.js

Git

Docker

Javascript

HTML

CSS

ACHIEVEMENTS

- Ranked 1st (Problem-wise) at Amazon Code Wizard Challenge 2017
- Among the top 50 teams from India in ACM ICPC 2016 India Finals
- Ranked 3rd in IIT Mandi's Design Practicum

ACTIVITIES/INTERESTS

- Proactive about learning new skills
- Really likes to travel
- Chess and FPS games