Sanyam Arya
Head of Engineering

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Profile

High-performing Head of Engineering with eight years of experience, contributing to the company's development via high-level strategy and operational excellence. A long history of successfully fostering cross-functional collaboration and creative problem-solving in high-stakes situations. Confident in their capacity to mobilise support for meaningful change by leveraging relationship and data capital. Dedicated to lifelong learning and progress.

Skills

Web Development
Node JS, Typescript, React, CSS, HTML, javascript, MongoDB, REST, GrapqhQL

DevOps / CloudOps
AWS, Terraform, GitHub Actions, CI/CD, Docker

Software developemnt
Python 3, goLang, C

Manegeral
Agile (Scrum, Kanban)

IoT/M2M
Raspberry Pi, AVR, Arduino, MQTT, ADC, USART

Tools
git, vs code, Figma, Jira, Confluence, notion, miro

Professional Experience

weeve GMBH

12.2021 – present Berlin, Germany	*Head of Engineering*

- Successfully led and mentored a fantastic team of software developers, IoT Engineers, Designers, Dev-ops Engineers and Managers(in-house and remote) in three different time zones to build and test the company's technology, implement new technology, collaborative development and pair programming, which in turn increased efficiency and productivity.
- Worked closely with c-level to define & develop a business plan and long-term tech strategy, resulting in a 2-year roadmap for growth.
- Shaped the overall system architecture(monolith and micro-services), team structures, roles and responsibilities in the engineering organization, leading to more sustainable growth, following good agile practices and forming guilds out of individuals rather than breaking them up into teams.
- Setting and achieving KPIs and OKRs successfully for the engineering organization, creating a well-informed method for evaluating and enhancing team output.
- Took full ownership of the codebase, using mono-repos and static code analysis, reducing technical debt by more than 60%.
- Built and refined our hiring (& retention) strategies to scale the engineering organization, reducing time-to-hire by 40%.
- Exhibited high-growth leadership abilities by managing a startup culture where speed of delivery is just as important as the processes.
- Created the company's open-source roadmap and launched the open-source initiative. Excellent external and internal documents helped onboard outside contributors.

11.2020 – 11.2021 Berlin, Germany	*IoT Software Developer*

- Worked closely with the project and product team to grow ideas and push for the right things to do, resulting in more efficient use of time and resources.
- Developed data architectures to support the collection and analysis of a vast amount of data from several devices, resulting in a 10% increase in efficiency.
- Programmed hardware to interface with sensors and actuators, allowing for real-time critical infrastructure monitoring.
- Designed & implemented user interfaces using ReactJS and Typescript, decreasing development time by 20%.
- Developing edge software using goLang and modules using python.

02.2020 – 11.2020	**trivago** ⧉
Düsseldorf, Germany	*Software Developer*

- Developed & deployed features using NodeJS, TypeScript, GraphQL, & SQL that increased customer satisfaction.
- Successfully monitored & maintained application health through tools such as Jenkins and AWS console.
- Contributed to front-end development efforts using ReactJS which improved the user interface.

08.2017 – 11.2019	**AFour Technologies** ⧉
Pune, India	*Software Developer*

- Developed electronics (Embedded Systems), web backend and web applications for IoT products.
- Led teams for microservices and full stack development.
- Developed skills for Amazon Alexa and ChatBots using Google's Dialog Flow.

Projects

weeve Platform ⧉
Generate Business Value from your IoT Data

- The weeve platform is an IoT Integration Platform as a Service (PaaS) that bridges the gap between IoT complexity and data-driven business systems
- It offers a single platform solution for collecting, managing, analysing, and sharing insights from all relevant IoT data sources
- weeve provides custom solutions within minutes with modular edge computing, a no-code building block approach, and an open development framework
- The platform solves multiple IoT problems, including data privacy, data volume, and shortage of application experts
- Businesses can create, build, deploy, and deliver insights and structured data directly from the edge with the weeve platform
- weeve connects IoT data with business data to generate real value.

MQTIZER ⧉
Free MQTT Client (Cross Platform)

- MQTIZER is a mobile MQTT client that can connect to any broker that shares the network with your phone and any broker on the cloud.
- A new version of the APP is being developed in Flutter and released on the apple store and the google play store.

NPM Packages
Open-source javascript packages

- Notion-plus ⧉
  - Notion Plus is an Object-Relational Mapping (ORM) library for TypeScript that provides a simple and intuitive way to interact with Notion databases. With Notion Plus, you can define database schemas using TypeScript interfaces and perform CRUD operations on those databases using a fluent API.
- Time Pocket - time utilities ⧉
  - Some simple time utilities you can have while developing in JS.
- Markdowner CLI ⧉
  - A command-line tool crafted to make your life easier when working with markdown-based documentation.
- Use Ultimate Hooks ⧉
  - This set of developer-friendly custom React hooks will make your life easier and your code cleaner.

Terraform modules
Open-source Terraform modules

- EC2 Server Stack ⧉
  - Creates a list of EC2 instances based on specified configurations
  - Sets up EC2 instances required for a setup or microservices architecture
  - Creates security groups for each instance
  - Assigns ports to each instance
  - Sets up Route53 records for each instance
- Cloudfront Stack ⧉
  - Creates an S3 bucket for the website static files.
  - Creates AWS S3 bucket public access block to make the S3 bucket private.
  - Creates a CloudFront distribution for the website.
  - Create AWS Cloudfront Origin Access Identity (OAI) for the S3 bucket.
  - Creates AWS S3 bucket policy to allow CloudFront to access the S3 bucket.
  - Links route53 record to the CloudFront distribution.

Internet Speed Test ⬈
Open-source Telegraf plugin
- The Internet Speed Monitor collects data about the internet speed on the system.
- A Telegraf plugin for TICK stack's data accusation tool.
- Written in Go (Programming Language)

CONA - Computation on Nearby Appliances
Edge Computing Solution (Concept)
- Cona implements edge computing which reduces the volumes of data and the consequent traffic.
- It brings the data closer to the user, removing all concerns about data privacy.
- It provides lower latency and decreases transmission costs drastically.
- Protocol Interoperability.
- Edge device performance monitoring.

Education

02.2017 – 08.2017
Pune, India

Advanced Computing Training School - C-DAC
Post Graduation Diploma in IoT
- Introduction Evolution and Fundamentals of IoT
- IoT Devices and Ecosystem
- Application and Architecture of IoT
- IoT Protocols and Wireless Sensor Networks
- Building an IoT Solution
- Cloud Computing for IoT
- Big Data Analytics and Machine Learning for IoT
- Privacy and Security in IoT

2011 – 2015
Gwalior, India

ITM University ⬈
Bachelor of Technology - Electronics and Communication
- ELECTRONICS AND COMMUNICATION ENGINEERING, also known as ECE, is a four-year (eight-semester) undergraduate (UG) course that provides a bachelor's degree.
- It is an AICTE, i.e., All India Council for Technical Education-approved degree.
- This programme provides students with a strong foundation in robust electronics and communication systems fundamentals.

Languages

English   Hindi