

Dhruv Thakur

Tech Lead

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SUMMARY

Software Engineer turned Technical Lead with 8 years of experience building backend systems for several SaaS platforms, and a large multinational bank.

WORK EXPERIENCE

Radancy, Tech Lead 🔗

Dec 2022 – present
Vienna, AT

- **Technical Lead:** Responsible for leading a cross-functional team of up to 6 engineers/testers, aligning the technical direction of the team, ensuring well-being and development of team members, and collaborating with product teams to conceptualise features
- **Allow users to share curated web content** 🔗 : Allow users to create and share curated web content, generate personalized links and gain rewards for participation
- **Automated testing suites on live environments** 🔗 : Set up automated testing on live environments to catch issues faster and increase trust in code changes
- **Allow segmenting reward plans** 🔗 : Enable customers to segment users into predefined groups and configure reward
- **Migration to a trunk based model** 🔗 : Migrated front-end workflows from a git-flow model to a trunk based one, overhauling the release process along the way
- **Sharing multiple jobs** 🔗 : Extend job sharing capabilities of our Product to allow sharing (and viewing) of several jobs via a single shareable link (*scala, play, kafka*)
- **Feature Previews for the Front End** 🔗 : Allowed the front-end to be deployed on "feature preview" deployment slots so that changes are visible sooner in the development lifecycle (*aws, ecs, jenkins*)
- **Custom email domains:** Enable customers to send emails on their own domain; managed using our internal admin tool (*scala*)
- **Custom domains:** Facilitate serving of the web app on custom domains; managed via internal admin tool (*cloudfront, scala*)
- **API migrations:** Migration of APIs related to user registration from legacy monolith service to a dedicated microservice (*scala, play*)

Radancy, Backend Engineer 🔗

May 2022 – Dec 2022
Vienna, AT

- **Feature migrations:** Migrate APIs from a legacy service to a modern one (*scala, play, tapir, ecs*)

deepLYNX, Back End Developer 🔗

Mar 2021 – Apr 2022
Vienna, AT

- **Code releases:** Worked as "release master" alongside regular role; responsible for deploying new versions of the codebase, and ensuring bug-free releases
- **APIs:** Worked on back-end APIs supporting customer facing product features (*fastapi, graphql, ECS*)
- **Async workloads:** Worked on back-end systems that ingest/egest data from/to third party ecommerce systems (*ECS, SQS, airflow*)
- **Infrastructure as Code:** Modeled existing AWS resources as code for faster iterative deployments (*AWS CDK*)
- **CICD:** Designed and implemented a multi-project CICD pipeline from scratch (*AWS CDK, CodePipeline, Github Actions*)
- **ORM:** Set up SQLAlchemy from scratch, to be used by back end systems
- **Tests:** Set up code testing (including linting, type checking) from scratch (*pytest, mypy*)
- **Structured Logging:** Overhauled logging across multiple projects to improve bug discoverability (*datadog, sentry*)
- **ETL:** Set up a scheduled ETL system to be directly used by our customers (via sftp) (*pandas, AWS CDK, AWS Transfer*)
- **Reporting:** Added analytics report generation tools for customers to get more insights into business metrics (*pandas, fastapi*)

Usersnap, Senior Backend Developer 🔗

Jun 2020 – Mar 2021
Vienna, AT

- **3rd Party Integrations:** Created integrations to let Usersnap users send feedback items to 3rd party platforms (like Github), webhooks, and email.
- **Product Features:** Worked on the back end to add features like screenshot comments, attachment upload to feedback, new project types, notification emails, etc. (*Flask, celery, SQLAlchemy, Postgres, pytest*)
- **Authorization:** Added JWT authorization to Usersnap's consumer API.

TourRadar, Backend Engineer

Dec 2019 – May 2020
Vienna, AT

- **Search and Ranking:** Serving and productionizing Machine Learning models (*Flask, fastapi, AWS ECS*)

HSBC, Senior Software Engineer

Mar 2019 – Oct 2019

- **CICD on GCP:** Infrastructure management and Microservice deployment on GKE (*Terraform, GKE*)

Hyderabad, IN

HSBC, Software Engineer

May 2017 – Feb 2019

- **Data Processing on GCP:** Wrote GKE CronJobs to log data onto various GCP databases (*Pub Sub, GKE, BigQuery, Data Store*)
- **Business Rules:** Wrote a microservice to encapsulate business rules for a Credit Decision Engine (*Drools, Spring, MongoDB*)
- **Credit Bureau:** (*poc*) Created a data ingestion system to incorporate data from external credit bureau vendors to HSBC credit approval application. Created a front-end to display analysed data. (*Flask, MongoDB, node, chart.js*)
- **Data Warehouse:** Wrote data processing pipelines on GCP to migrate data from on-prem warehouses, perform ETL and delta-processing, and generate daily snapshots (Cloud Dataflow, Apache Beam, BigQuery)
- **Customer Calls Analysis:** (*poc*) Created a platform/dashboard to generate real-time sentiment scores on customer center calls. This solution won first prize at CodeGrind, HSBC India's nation wide coding competition (*Cloud Speech, Cloud NLP, Cloud Functions, Pub-Sub, Flask, socket.io, chart.js*)

Hyderabad, IN

HSBC, Software Engineer

Jun 2016 – May 2017

- **Core Banking APIs:** Created APIs for modern clients to interact with a legacy core banking application (*Mule ESB*)
- **Internal HR application:** Created modules on an internal HR web-application (*Spring, Dojo*)
- **Internal Emails Classifier:** (*poc*) Created a multinomial logistic regression model for classifying internal emails (*Tensorflow*)

Pune, IN

PERSONAL PROJECTS

Tools

- **omm** is a keyboard-driven task manager for the command line
- **hours** is a no-frills time tracking toolkit for the command line
- **prs** lets you stay updated on pull requests from your terminal
- **bmm** lets you get to your bookmarks in a flash
- **ecscope** lets you monitor AWS ECS resources from the terminal
- **kplay** lets you inspect messages in a Kafka topic in a simple and deliberate manner
- **cueitup** lets you inspect messages in an AWS SQS queue in a simple and deliberate manner
- **outtasync** lets you Identify Cloudformation stacks that have drifted or gone out of sync
- **punchout** takes the suck out of logging time on JIRA
- **act3** lets you glance at the last 3 runs of your Github Actions
- **mult** lets you run a command multiple times and glance at the outputs
- **ecsv** helps you check the versions of your systems running in ECS tasks across various environments
- **schemas** lets you inspect postgres schemas in the terminal
- **commits** lets you glance at git commits through a simple TUI
- **dstll** gives you a high level overview of various constructs in your code files
- **tash** lets you stash content that you can access later
- **ghx** provides an alternative to GitHub's UI for viewing commit logs between git tags
- **mrj** merges your open dependency upgrade PRs
- **urll** lets you browse URLs in a webpage in a recursive manner
- **dstlled-diff** is a Github action that makes reviewing large-scale structural code changes easier
- **shfl** lets you rearrange lines in a file with simple keymaps
- **squish** lets you resize images via the command line
- **squidge** shortens delimited data
- **tbl** outputs data in tabular format
- **tomo** is a no-frills pomodoro progress indicator for tmux

EDUCATION

Udacity, Intro to Self-Driving Cars Nanodegree 

Feb 2019

National Institute of Technology, Hamirpur,

Bachelor of Technology in Electronics and Communications Engineering

Aug 2012 – May 2016

Hamirpur, IN

SKILLS

- **Programming Languages:** go, rust, scala, gleam, python
- **Databases:** postgresSQL, BigQuery
- **Cloud:** GCP, AWS

MOOCS AND CERTIFICATIONS

Visit <https://dhruvs.space/learnings/> 