Dhruv Thakur

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SUMMARY

Software Engineer with 6 years of experience building backend systems for e-commerce and user feedback SaaS platforms, and a large multinational bank.

PROFESSIONAL EXPERIENCE

firstbird, Backend Engineer ∂ May 2022 - present

Vienna, AT

deepLYNX, Back End Developer ∂

• Code releases: Worked as "release master" alongside regular role; responsible for deploying new versions of the codebase, and ensuring bug-free releases

Mar 2021 - Apr 2022 Vienna, AT

APIs: Worked on back-end APIs supporting customer facing product features (fastapi, graphql,

 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 *⊗*

• 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

• Search and Ranking: Serving and productionizing Machine Learning models (Flask, fastapi, AWS

HSBC, Senior Software Engineer

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

HSBC, Software Engineer

 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.is)

HSBC, Software Engineer

• 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)

Jun 2020 - Mar 2021 Vienna, AT

Dec 2019 - May 2020 Vienna, AT

Mar 2019 - Oct 2019 Hyderabad, IN

May 2017 - Feb 2019 Hyderabad, IN

Jun 2016 - May 2017 Pune, IN

PERSONAL PROJECTS

- handy-maps Ø: A website to visualize public data from various US govt. institutions.
- album-art-genre-classifier \mathscr{D} : Image classifier API that predicts music genre from uploaded album art.
- grad-cam-visualizer @: Experiments in generating class discriminative localization maps from trained convnets.
- book-lending-marketplace: An online marketplace for fellow college students to lend/sell books; ran website for a few months.

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

- Web: fastapi, flask, graphQL, django, , spring
- Programming Languages: python, java, javaScript, SQL, CSS, HTML, latex
- Other: pytest, celery, matplotlib, pandas, seaborn, apache beam
- **DevOps**: docker, AWS CDK
- Databases: postgreSQL, BigQuery, MySQL
- Cloud: GCP, AWS

MOOCS AND CERTIFICATIONS

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