GAUTAM SINGH

Sr. Software Engineer

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# **SKILLS**

* **Backend:** Python (Django, Flask), GoLang
* **Frontend**: React (with Redux toolkit)
* **DevOps/Cloud:** Docker, Kubernetes, GCP, Terraform
* **Databases**: SQL, Redis, Firestore, MongoDB

# **EXPERIENCE**

**Manager - Decision Sciences** - HSBC *Sept 2024 - Present*

* Independently validating and challenging financial models developed for Risk Management in the Retail domain.
* Ensuring the accuracy and reliability of financial models used in HSBC's Retail banking.
* Communicating complex information about models and risks to other departments in the company.
* Providing guidance and training to interns on Python programming and financial modeling concepts.
* Reviewing Python code for models, providing feedback and approvals for changes (Pull Requests).

**Engineer** - Fractal Analytics *Jan 2023 - Sept 2024*

* Spearheading the development and maintenance of backend APIs using **Flask** and **Django** for various projects.
* Designing and maintaining responsive front-end components with **ReactJS** and **Redux Toolkit**.
* Creating data transformations leveraging **Pandas** DataFrame to optimize data processing.
* Utilizing **PySpark** (in Azure Databricks) for stream processing by fetching data from the client's SAP database, to handle high-volume data pipelines efficiently.
* Collaborating within a dynamic team to design, develop, and deploy scalable, robust microservices meeting client specifications.
* Contributing to code reviews, testing, debugging, and troubleshooting to ensure the delivery of high-quality solutions.
* Maintaining comprehensive documentation and providing technical support to team members and clients when needed.

**Data Engineer** - SpringML *Dec 2021 - Dec 2022*

* Devoted expertise to the management of Google Cloud Platform (GCP) resources.
* Developed REST APIs on Flask, deploying them seamlessly on GCP.
* Leveraged **Terraform** for Infrastructure as Code to efficiently manage cloud resources.
* Implemented event-driven architecture using **Google Cloud Pub/Sub** for message delivery, integrating with Twilio Voice API to create a scalable, real-time call queue system.
* Utilized various Google Cloud services, including Cloud Run, Cloud Functions, Cloud SQL, Secret Manager, Pub-Sub, Cloud Storage, Docker and Google Kubernetes Engine for multiple projects and proof of concepts.

**Software Development Engineer** - CodeNicley *Oct 2019 - Dec 2021*

* Pioneered the development of backend systems from inception in one of CodeNicely's major projects.
* Crafted web applications tailored to clients' demands, ensuring alignment with expectations.
* Led a team of four professionals, guiding the design and development of projects across diverse platforms.
* Personally managed client relationships, gathering feedback for continuous development and quality assurance.
* Mentored new Django developers, contributing to their professional growth within the company.
* Conducted interviews, shortlisting candidates aligned with company requirements.

**Business Development Associate** - Byju's *Jan 2019 - Sep 2019*

* Regularly and effectively met warm calling targets, 2.5-3 hours daily call time.
* Accelerated company's growth by achieving a total sales of 14-15 lacs.

# **PROJECTS**

## [[Link](https://in.pg.com/)] **Comcen P&G** @Fractal *1 year*

* Engineered robust backend functionalities using **Flask** to manage Procter & Gamble's internal shipment deliveries.
* Contributed to the front-end development with **React**, ensuring a user-friendly interface.
* Implemented multilingual support, allowing the application to operate seamlessly in various languages.
* Ensured the application's scalability across multiple cities, accommodating the client’s diverse operational needs.
* Orchestrated services using **Azure Kubernetes Service** for efficient deployment and scaling.
* Deployed using **Azure DevOps Pipelines**.

## [[Link](https://www.healthpotli.com/)] **HealthPotli** @CodeNicely *2 years*

* This is an Amazon-like application for Health-Care Products/Medicines with around 50k users and 40k+ products.
* Implemented features like in-app wallets, referral programs, cart, bookmarks with custom wishlists etc.
* **Rest-APIs** were built using DRF (**Django Rest Framework**).
* Users were authenticated using **JWT authentication**.
* The goal was to make the platform highly available and fault-tolerant.
* Integrated third-party packages like - Razorpay, Ezetap, Zoho books, BulkSMS, Firebase cloud messaging etc.
* Deployed on **AWS EC2 instance**, using **S3 bucket** for the storage.

## **Telelanguage** @SpringML *7 months*

* This project aims at providing live language interpretation services to their customers.
* Integrated **Twilio**'s Programmable Voice and Programmable Video, for live calling features.
* Utilized **Sendgrid** services for notifying users via email.
* Used **Flask** to build REST APIs.
* Deployed as microservices in **GCP Cloud Run**.

# **CERTIFICATIONS**

* [[Link](https://www.credential.net/44f78ece-7455-4ef1-ab75-bd8c7dfe209a?key=988a288f4c818944729951d49e7f2fe3dcf5c051d12fba8115b6cc96ba22eb73&record_view=true)] Google Cloud Platform - Professional Data Engineer
* Twilio Platform Certification

# **EDUCATION**

**CSVTU -** Computer Science and Engineering - **72%** *2015 - 2019*

**K.V. no. 1, Raipur -** Senior Secondary (12th) - **87.6%** *2015*