#7, SK Homes, Govindappa Ln.,
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PRANAV SHARMA

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EMPLOYMENT   **9 YEARS**

| **Software Development Engineer 2** | **Tesco** (Retail) | **September 2023 - June 2024** |

Working in the **Loyalty Domain** of Tesco's **Stored Value Services**. As part of this we furbish and deliver the monthly points statements of close to **25 million customers**, reaching a **tps of 100,000+**. Also powering conversions of incentives to give customers the flexibility to encash different reward types.
Tools / Cloud Environment - **Java, Micronaut, Spock, Couchbase, Splunk, New Relic, Azure, Docker, Kubernetes.**

Senior Software / Site Reliability Engineer   **Tipalti, Canada** (Fintech)   **Nov 2022 - Jan 2023**

Handling the infrastructure of Tipalti for higher **reliability**, **scalability** and **observability**.
● Introducing **Grafana** dashboards for **monitoring** and **site reliability**.
● Formalizing an approach for notifying point services about an incident on the infrastructure and/or service.
Tools / Cloud Environment - **Java, Go, Python, Dynatrace, Prometheus, Grafana, AWS, Docker, Kubernetes.**

Staff Software Engineer   **Amagi Corporation** (Broadcast Media)   (≈ 2 yrs) **March 2021 - Nov 2022**

As a Staff Software Engineer at Amagi, I made **significant** contributions to the **Streaming TV** & **Cloud Playout** team, specializing in **media and streaming** technology. **Leading a team of 5+ engineers**, I successfully managed and groomed the team while taking ownership of **critical** services -
● **EPG** - Wrote the EPG microservice in **Java** and **Golang**, enabling electronic programming guides for content partners across multiple distribution platforms like **Roku, Samsung,** and **Plex**. Implemented **Prometheus/Grafana** monitoring for enhanced service **observability**.
　　o Received the prestigious **Amagi Achiever Award** for delivering pivotal features for Amagi Now.
　　o Successfully led the project's expansion, **scaling** EPG deliveries from **10 to 100,000+ per day**.
● **Programmatic Scheduling** - wrote a reliable scheduling service in **Python** to program playlist streams for clients like USA Today News and USA Today Sports.
● Tools / Cloud Environment - **Kafka, Beego, Redis, MySQL, Flask, Docker, Kubernetes**, **AWS**, **Cloudformation**.

Senior Software Engineer   **Embibe (**Edtech**)**   (1.3 yrs) **Jan 2020 – March 2021**

Embibe is an innovative **educational technology** platform leveraging AI for personalized learning
● Delivered **Fiber** - Embibe's flagship product to provide learn, practice and test experience on DTH TV boxes. My work was designing and delivering the orchestration **microservice** in **Java / Spring Boot**.
　　o **Awarded the Spot Award for best performing API.** Achieved 600 requests per second.
● **Activity Stream** - **Python microservice** which provides user activity intelligence to downstream services.
● **Payments & Points** - **Golang microservice** which handles payment and point transactions with embiums as currency.
● Tools / Cloud Environment - **Kafka, Springboot, Django, Redis, MongoDB, Docker, Kubernetes**, **AWS** as cloud.

Software Engineer   **FabHotels** (Travel & Hospitality)   (4.5 yrs) **Jul 2015 – Dec 2019**

Worked with the backend, data engineering and analytics teams to solve technology and business problems in the hospitality space.
● Wrote **Referral & Analytics microservices** using a combination of **Java / Spring Boot** and **Python / Django**.
● Created **ETL Jobs** using **Hitachi Pentaho** to power **Tableau** dashboards.
● Optimized batch-jobs running time through efficient compute utilization.
● Crawling websites of massive scale using **Scrapy** followed by pipelining data from scraping processes.
● Wrote crawlers and its logics for various websites covering markets like UK Grocery, Travel and Hospitality.
● Optimized pipelines and modeled Cassandra Data Stores with visualizations through **Redash**.
Created software to better streamline the operations systems.
● Created an operations **microservice** in **Python/Django** for the operations team.
● Generated reports using **Golang** to understand user engagement through unsupervised models like **k - means and g-means**.
● Tools / Cloud Environment - **Kafka, Springboot, Django, Scrapy, Redis, PostgreSQL, Cassandra, Docker, Kubernetes**, **AWS** as the cloud.

EDUCATION

| **Patiala, Punjab, India** | **Thapar University** | **June 2011 – June 2015** |

- Bachelor of Engineering in Computer Science.

TECHNICAL STRENGTHS

- Programming
- Algorithm Design
- Data Structures

- Database Design
- Design Patterns
- OOPs

- Distributed Systems
- Scalability
- Technical Documentation

TOOLS & TECHNOLOGIES

- *Languages* - Java, Python, Go, SQL, JavaScript
- *Frameworks* - Spring Boot, Django, Flask, Scrapy, Beego, Hitachi Pentaho
- *Databases* - MySQL, Postgres, MongoDB, S3, Redis, Cassandra, Elasticsearch
- *Queues* - Kafka, PubNub
- *OS* - Linux, Unix
- *Integrations & Deployments* - Jenkins, CircleCI

- *Version Control* - Git
- *Containerisation & Orchestration* - Docker, Kubernetes
- *Observability* - Prometheus, Grafana, New Relic, Kibana, Redash, Tableau
- *IDEs* - Sublime Text, IntelliJ, Visual Studio, Goland, Unity
- *Cloud Services* - AWS (Lambda, Cloudformation, S3, EC2, etc), Serverless