TAHA ABBAS

Senior Software Engineer

2+ years of work experience in software development and engineering.

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EMPLOYMENT

Toppr | Hyderabad, India | Senior Software Engineer –   Jan, 2021 - Present

Content Service - Future School (microservice) –
Tech Stack: Go, GORM, Gin, PostgreSQL, MongoDB, Redis, Docker, GIT, AWS Step Function, Lambda

- Led the development of a micro-service from scratch to serve course-based contents.
- Implemented server-less data synchronization between different data sources across multiple organizations.

Toppr | Hyderabad, India | Software Engineer –   Dec, 2019 – Dec 2021

School Operating System (microservice) –
Tech Stack: Python, Django, PostgreSQL, Redis, Docker, GIT, AWS, JavaScript, Node.js

- Implemented RESTful APIs following Level 2 of the **Richardson Maturity Model**.
- Used bulk get and set caching mechanism of **Redis** in APIs involving multiple objects at a time such as an entity manager tool, causing massive(~30%) performance improvement.
- Implemented dynamic workspace-like mechanism to serve API contents by extending **Django REST Framework** View, currently operating 50+ such workspaces.
- Implemented **authorization** (**JWT/S.S.O.**) and **authentication** mechanisms in sync with a central system used by thousands of users.
- Added after-school classroom homework feature currently serving 1.5TB of media attachment with ~20K daily user interactions.
- Built an attendance system based on **cron jobs**, extensible with **Celery**; currently serving ½ million entries daily.
- Integrated configuration management system providing control over product as a service as well as software.

Live Classes (microservice) –
Tech Stack: Python, Django, PostgreSQL, Redis

- Implemented pooled account allocation system based on first-come-first-serve approach, extensible to act as a pool of pools.

Learn App (monolithic) –
Tech Stack: Python, Django, PostgreSQL, Redis, AWS

- Added user-specific payment options feature to facilitate user's payment preference. Included payment option verification i.e. UPI and bank.
- Implemented event tracking using inheritance as a part of analytics service which captures custom user actions later used to improve the customer-centric product experience.

Customer Relationship Management (monolithic) –
Tech Stack: Python, Django, PostgreSQL, Redis, ElasticSearch, Java, AWS

- Implemented a dashboard using **ElasticSearch** and **Redis**, providing real-time performance metrics of in-field agents.
- Migrated and upgraded in-place **ElastisSearch** machines, reducing system load by 40% and improving system performance by 20%.

SKILLS

Languages	Python, Go, JavaScript, PHP, SQL, Java, C/C++
Frameworks	Django, Gin, GORM, Spring, Spring Boot, Laravel, AngularJS, JQuery
Datastores	PostgreSQL, Redis, MY/MS/Oracle SQL DBMS, MongoDB, Elasticsearch, AWS (SQS, S3, Kinesis), Firebase, Kafka
Operations	Nginx, Apache HTTP, Docker, Kubernetes, Jenkins, AWS (GUI/CLI), Celery, Redash, Apache AirFlow, Apache Tomcat, Dremio, Kibana, Logstash, Druid, Bitbucket
Utilities	GIT, Linux Shell Utilities, Jetbrains IDE, Visual Studio IDE, Node.js

EDUCATION

Bachelor of Technology – Computer Science and Engineering, B.B.D. NITM, AKTU, 81%   2015 - 2019
Senior Secondary (10+2) & High School, I.S.C & I.C.S.E., Unity College   2011 - 2014