

# TAHA ABBAS

Senior Software Engineer

2+ years of work experience in software development with a background in engineering.

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## EMPLOYMENT

**Toppr** | Hyderabad, India | Software Engineer –

Dec, 2019 - Present

**Content Service** - Future School (microservice) –

Tech Stack: Go, GORM, Gin, PostgreSQL, MongoDB, Redis, Docker, GIT, AWS Step Function, Lambda

- Build a micro-service from scratch to serve course-based content.
- Implemented server-less synchronization between different data sources.
- Leading further development.

**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 Redis bulk get and set caching mechanism 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 intercepting 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 using state machine concept currently serving 1.5TB of media attachment with ~20K daily user interactions.
- Built attendance system based on cron jobs, extensible with Celery, currently serving ½ million entries daily.
- Integrated configuration management system providing parametric the 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 a first-come-first-serve, 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 in-field agent visibility along with decision-making parameters within few seconds.
- Migrated and upgraded in-place Elastisearch machine, reducing system load by 40% and improving system performance by 20%.

## SKILLS

Languages	Python, PHP, JavaScript, Go, SQL, Java, C/C++
Frameworks	Django, Spring, Spring Boot, Gin, GORM, Laravel, AngularJS, JQuery, Node.js
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
Utilities	GIT, Linux Shell Utilities, JetBrains IDE, Visual Studio IDE

## 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