

# TAHA ABBAS

## Software Engineer

More than a year work experience in software development with background in engineering.

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### EMPLOYMENT

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

Dec, 2019 - Present

Python, Django, Postgres, Redis, Docker, GIT, AWS

School Operating System (microservice) –

- Implemented RESTful APIs following Level 2 of Richardson Maturity Model.
- Used Redis bulk get and set caching mechanism in APIs involving multiple object 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 control over product as a service as well as software.

Live Classes System (microservice) –

- Implemented pooled account allocation system based on first-come-first-serve basis, extensible to act as pool of pools following prototype design pattern.

Learning Application (monolithic) –

- Added user-specific payment option 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 customer centric product experience.

Customer Relationship Management System (monolithic) –

- 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 Elasticsearch machine, reducing system load by 40% and improving system performance by 20%.

**ADDA** | Bangalore, India | Developer I

Nov, 2019 – Dec, 2019

PHP, Laravel, Angular JS, JavaScript, Jenkins, GIT

Gatekeeper Application -

- Implemented time zones aware event listing API as a part of visitor management system wrapping existing PHP DateTime and DateTimeZone classes.

Enterprise Resource Planning System -

- Added a feature to trigger promotional messages helped in increasing user base by ~ 25%.
- Implemented sub-categories schema in existing ticket management system, both UI and API.

### SOFTWARE PROJECTS

**FinServ:** A Java based Spring web application to provide multiple financial services.

**Surf-Key for Voodoo12CHID:** Mac OSX keyboard porting for existing I2C drivers on Hackintosh systems.

**Content Deployer Network:** A JavaScript based peer-to-peer content delivery network with tracker.

### SKILLS

|            |                                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------------|
| Languages  | Python, PHP, JavaScript, SQL, Java, C/C++                                                                                   |
| Frameworks | Django, Spring, Spring Boot, Guice, Laravel, AngularJS, JQuery, Node.js                                                     |
| Datastores | Postgres, Redis, MY/MS/Oracle-SQL DBMS, MongoDB, Elasticsearch, Dremio, AWS (SQS, S3, Kinesis), Firebase, Kafka, Kibana, H2 |
| Operations | Nginx, Apache HTTP, Docker, Kubernetes, Jenkins, AWS (GUI/CLI), Celery, Redash, Apache AirFlow, Apache Tomcat               |
| 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