

Ujjwal Tiwari

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SUMMARY

Full Stack SDE with 1+ year shipping production features at scale – architected a **TOTP-based MFA microservice** (adopted company-wide), delivered **3 solo OpenEdX features**, and built a bulk upload pipeline handling **1000s of components in under 4 seconds**. Proficient in **ASP.NET Core, Python/Django, React, Angular, TypeScript, Azure Functions**, and **OpenEdX**. Strong in REST APIs, SQL optimization, RabbitMQ, unit testing, and WCAG 2 accessibility.

EDUCATION

- **Thakur College of Engineering and Technology** 06 2020 – 05 2024
B.Tech in Internet of Things (IoT) | GPA: 9.27 / 10.00 Mumbai, India

EXPERIENCE

- **ZEUS LEARNING** [\[Link\]](#) 06 2024 – Present
Software Development Engineer Mumbai, India
 - Architected a **TOTP-based MFA microservice** using **ASP.NET Core**, designed as a standalone auth module that integrated seamlessly with all major company products; adopted company-wide with **zero post-deployment security incidents**.
 - Optimized **SQL** queries for CMS-LMS data sync – introduced **indexes on inner join keys** and eliminated recursive queries, reducing query execution time significantly; resolved legacy data inconsistency issues. Built a full-stack UI Report feature with unit tests and **WCAG 2** compliance.
 - Engineered a **Bulk Upload pipeline** (OpenEdX LMS) via internal **REST APIs**, capable of processing and creating **1000s of question components in under 4 seconds**; maintained **zero Sonar and linting violations** throughout.
 - Solo-delivered 2 additional **OpenEdX** features – **SCORM** upload & rendering pipeline; and **TinyMCE** editor integration with a custom plugin toolbar.
 - Integrated **RabbitMQ** to offload assignment/attempt data sync to background workers, eliminating frontend delays on submission; contributed to serverless sync layer using **Azure Functions** and **SQL**.
 - Contributed to XBlock frontend UI with **React + MUI**, unit tests, and **WCAG 2** compliance.
 - Performed **Azure Cognitive Services Speech SDK** version migration – refactored all deprecated APIs across the codebase, achieving **zero Sonar issues** post-migration and ensuring forward compatibility.
- **CypherX** [\[Link\]](#) 02 2024 – 05 2024
Android Developer Intern Mumbai, India
 - Built an IoT irrigation monitoring app using **Firebase Realtime Database** for live data streaming and remote field management.
 - Redesigned the Femto App with dark theme, payment integration, **Room Database**, **Dependency Injection**, and **Retrofit** for API communication.

PROJECTS

- **LogScope: [Python Log Analysis Package]** 2026 – Present
Python, PyPI, Log Parsing, CLI [\[G\]](#)
 - Developed and published a **Python package** for automated log analysis of production projects – supports pattern detection, anomaly flagging, and structured reporting via a CLI interface.
- **Study Notion: [EdTech Platform]** 10 2023 – 01 2024
MongoDB, Express.js, React.js, Node.js, Firebase, TailwindCSS [\[G\]](#)
 - Built a full-stack EdTech platform with the **MERN stack**; cloud media management improved load performance by **25%** and payment gateway integration enhanced transaction UX by **30%**.
- **E-Commerce: [Android Shopping App]** 06 2023
Kotlin, Firebase, Glide, MVVM Architecture [\[G\]](#)
 - Developed an Android e-commerce app with **MVVM** architecture, **Firebase** for real-time data sync, and **Glide** for optimized image loading.

SKILLS

- **Languages:** C++, Kotlin, JavaScript, TypeScript, Python, SQL, C#
- **Frontend:** React.js, Angular, Redux, MUI, TailwindCSS, SCSS, TinyMCE
- **Backend & Frameworks:** Node.js, Express.js, ASP.NET Core, Python/Django, REST APIs, RabbitMQ
- **Cloud & DevOps:** Azure Functions, Azure Cognitive Services, AWS Glue, AWS Athena, Firebase, Docker, Git
- **Databases:** MongoDB, MySQL, SQL Server
- **Tools & Standards:** OpenEdX, SCORM, Android Studio, Unit Testing, SonarQube, WCAG 2, Agile, MVVM
- **Competitive Programming:** LeetCode – Rating 1410, 277 problems solved, 33 contests [\[profile\]](#) | CodeChef – Rating 1388, 97 problems solved, 10 contests [\[profile\]](#) | GeeksforGeeks – 63 problems solved [\[profile\]](#)