Mojahed Ibrahim

Software Engineer: backend, Java data pipelines and API integrations

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SUMMARY

Software engineer with 7+ years of production code, now on backend work. At Comcast I build Java data-ingestion pipelines and API integrations with retry handling, send failure alerts over Slack, Teams and email, and took more than 6 hours off the daily batch run with parallel processing. Before that I spent four years building PHP and MySQL applications for a B2B e-commerce platform and a warehouse management system.

EXPERIENCE

Comcast, Philadelphia, PA Feb 2023 - Present

Software Engineer 2

- Build Java data-ingestion pipelines that move data between internal systems.
- Automated an API import of another team's data into the reporting database, with retries for rate limits and other failures.
- Built report-failure alerts over Slack, Teams and email, including an end-of-day alert when a report fails to publish. Moved the Slack alerts to OAuth.
- Cut more than 6 hours from total daily reporting time by adding parallel processing (parallel PL/SQL and CloverDX graphs) to four or five report families.
- Rewrote a slow query, added indexes and changed its joins, cutting that report's runtime by over 80%. Brought a separate recurring report down from four or five hours to about one.
- Upgraded CloverDX from 6.3.1 to 7.4.2 and updated the dependent reports and graphs.
- Support about 15 recurring reports that run daily over hundreds of thousands to millions of records. Built two end to end and drove the design of about five more.
- Write and maintain Oracle PL/SQL packages, procedures and migration scripts behind an internal fulfillment-accuracy reporting system.
- Review teammates' code and mentor new contractors on the team.

Turn 14 Distribution, Horsham, PA Jan 2019 - Feb 2023

Web Application Developer

- Built and maintained database-driven web applications in PHP, MySQL and JavaScript/jQuery, including a B2B e-commerce platform and a warehouse management system.
- Designed and tuned a MySQL schema of 1,000+ tables averaging 700K+ rows each, and set up replication for read scaling.
- Wrote queries and reports against high-volume tables for internal teams and external B2B clients.
- Refactored 10,000+ lines of legacy code across many files to improve maintainability and performance.

Temple University, Philadelphia, PA Jun 2018 - Jan 2019

MIS Information Technology Assistant

- Tutored students in SQL, PHP, HTML and CSS for the Data-Centric Application Development course.

Five Below, Philadelphia, PA May 2018 - Aug 2018

Store Operations Analyst Intern

- Built weekly and monthly labor and overtime reports in Excel and created sample schedules for test locations and the holiday season.

PROJECTS

- **Telegram contact API** (Java, Spring Boot): REST service that validates contact-form submissions and forwards them to Telegram. github.com/mibrahim95/telegramApi
- **Cousin's Supermarket inventory** (PHP, JavaScript): searchable product list with prices and UPCs; cut customer price-check wait time by about 20%.
- **Arcade1Up RetroPie mod**: hardware build of an arcade cabinet running RetroPie.

SKILLS

Languages	Java, SQL, PHP, JavaScript, HTML, CSS, Oracle PL/SQL
Back end and data	Spring Boot, REST APIs, JSON, data-ingestion pipelines, API retries, OAuth, CloverDX
Databases	MySQL, Oracle: query and index tuning, replication, migrations
Tools	Git/GitHub, Maven, Jira, Concourse CI/CD, Linux, Excel, React, jQuery
Also used	Go, Python (working familiarity)

EDUCATION

Temple University, Fox School of Business, Philadelphia, PA. Bachelor of Business Administration, 2019