

# Ahmed Khatib

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## WORK EXPERIENCE

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### Software Engineer

Apr 2024 - Present

*Onclusive - MH*

#### Engineered a Live Database Cache Server

- Designed a high-performance and resilient data structure, leveraging it to develop a **live database cache server** using **FastAPI** and **Uvicorn**.
- This initiative resulted in a significant decrease in the database **workload by over 60%** and improved response times by a **minimum of 200%**.

#### Developed a Configurable Data Ingestion Tool

- Planned and developed a **configurable data ingestion** tool which accepts **CSVs** and generates **SQL Files**.
- It performs business logic validations, identifies duplicates against the source sheet and the database.
- This streamlined the import process, alleviating concerns regarding database ingestion errors, data formats and integrity issues, while significantly **reducing the manual bandwidth**.

### Junior Software Engineer

Nov 22 - Apr 2024

*Critical Mention, an Onclusive Company - MH*

#### Standardized URL Definition and Automation

- Spearheaded research on over **2 million URLs** to analyze diverse formats, patterns, and combinations.
- Leveraging the insights gained from this research, established **standardized URL definitions**.
- Developed a **regex-powered tool** to identify and transform URLs to the standardized format.
- This initiative directly resulted in clear URL formats, substantially reduced duplicates, improved duplicate matching, and **decreased manual bandwidth**.

### Freelance Contributor

Apr 2024 - May 2024

*Codesphere - Remote*

#### Convert It

[Web App](#) | [GitHub](#) | [Codesphere](#) | [Docker](#)

- Ready-to-deploy image conversion and audio extraction web application with Vanilla HTML, CSS for frontend, Python and FastAPI hosted on a Uvicorn server for backend and JavaScript for integrating both ends.
- It supports a wide range of formats, accommodating various image and video inputs and outputs. It recognizes file types directly from the buffer, enhancing accuracy and enabling broader file support.
- Additionally built and published a docker image, making it docker deployable.

#### PDF Server

[Web App](#) | [GitHub](#) | [Codesphere](#)

- Pioneered a way to build, install, and deploy Stirling PDF without root, apt, yum, apk - using just Nix package manager.
- Developed a bash file and yaml template to build and deploy hassle-free with just a few clicks.
- Reached out to Stirling PDF (Top 15 Java GitHub repository) and contributed this alternative no-root installation method.

# PROJECTS

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## URL Genie

[PyPI](#) | [GitHub](#)

- A python package based on research involving over 2 million URLs, designed to handle URLs in a flexible manner for data-driven projects.
- It features URL extraction, generalization, validation, filtration, duplicate reduction, and email domain mismatch with easy steps.

## Threadscape

[Web App](#) | [GitHub](#)

- A robust Django-powered web application enabling users to create and participate in threaded discussions.
- Features include topic-based filtering, custom topic creation, user authentication via session and token management, and a responsive, intuitive user interface.
- The application is hosted on Codesphere and utilizes Whitenoise to serve static files.

# EDUCATION

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## University of Mumbai

Jun 2017 - Oct 2020

Bachelor of Science in Computer Science

# SKILLS

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## Languages

Python, Javascript, MySQL, KQL, PSQL, HTML, CSS.

## Frameworks/Libraries

Pandas, Django, FastAPI, FLET, SolidJS, ReactJS, BeautifulSoup4, Selenium, Concurrent Futures, Logging, Pytest.

## Software/System

Linux, Bash, Git, Docker, AWS, MySQL Workbench, DBeaver, Jenkins, SSH, Elastic Search, Kibana.

## Soft Skills

Communication, Problem-Solving, Adaptability, Attention to Detail, Critical Thinking.

## Others

Regex, CRON, Web Scraping, Modularization, Unit Testing.

# LANGUAGES

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## English

Fluent, Read, Write, Speak.

## Hindi

Native, Read, Write, Speak.

## Urdu

Read, Speak.

## Arabic

Read only.