

Tamim Muhammed Mushtak

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EXPERIENCE

Senior Software Engineer

June 2024 – Present

Docxster

Bengaluru

- Architected a dynamic workflow builder system enabling users to create complex document processing pipelines through a modular, drag-and-drop interface, abstracting intricate backend operations into intuitive frontend components
- Engineered a sophisticated plugin architecture allowing seamless integration of new workflow modules, implementing a type-safe interface system that ensures compatibility across user-created workflows
- Developed an event-driven execution engine in Golang that handles complex workflow branching, parallel processing, and state management, while maintaining sub-200ms response times
- Built a universal integration framework supporting bidirectional sync with external services (Google Drive, Gmail), enabling complex multi-step workflows with robust error recovery
- Engineered an event-driven execution workflow engine handling complex branching, conditional logic, user-configuration parsing

Founding Engineer

June 2023 – June 2024

Practistics

Remote

- Architected an automated match analysis system using Python, reducing data collection time from 20+ minutes to under 3 minutes through sophisticated OCR and image processing algorithms
- Built a robust client-side data extraction engine using OpenCV and EasyOCR, implementing adaptive preprocessing techniques that maintained accuracy across multiple game updates
- Developed a Flask backend with real-time visualization capabilities, serving dynamic statistical insights to 150+ active users processing 900+ matches daily
- Engineered a modular pub/sub architecture integrating with Overwolf SDK for real-time game data collection, implementing efficient data transformation pipelines
- Created a secure launcher application with auto-update capabilities, implementing code protection mechanisms while maintaining seamless user experience

PROJECTS

Indian Poverty Data Dashboard | *Python, Flask, React, pandas, PostgreSQL*

April, 2023

- * Engineered complex data extraction pipelines using pdfplumber and pandas to transform a 400-page unstructured government poverty report into structured tabular data, handling intricate table layouts and multi-page data continuations
- * Built a sophisticated data reconciliation system that matched 2024 district data with 2011 census records, handling challenges like district splits, mergers, and name changes across 600+ districts using fuzzy matching algorithms
- * Developed robust data cleaning workflows to handle inconsistent formatting, missing values, and statistical anomalies across multiple government data sources while maintaining data integrity
- * Created an interactive analytics dashboard using Plotly and Dash that visualizes multi-dimensional poverty metrics across Indian districts, making complex socioeconomic data accessible to policy researchers

EDUCATION

Sahyadri College of Engineering

Mangalore, India

Bachelor of Engineering in Computer Science (Data Science)

Nov 2020 – July 2024

TECHNICAL SKILLS

Languages: Python, Golang, JavaScript/TypeScript, Java, C

Frameworks: FastAPI, Flask, React, Celery, Express.js

Cloud & Infrastructure: AWS (EC2, SQS, Textract), PostgreSQL, MongoDB, Docker, Git

Libraries: pandas, OpenCV, easyOCR, NumPy, Elasticsearch