

# Melvin M T

Self-Taught Full-Stack Developer transitioning from a leadership role in warehouse operations to building scalable web solutions. Specialized in Python, Django, PostgreSQL and React. Trained in work simulated environment, consistently meeting tight weekly deadlines and passing rigorous technical reviews. Work-ready candidate with a deep understanding of core concepts like REST API, Data Structures & Algorithms (DSA) and modern front-end architecture using TypeScript, Zustand, and ShadcnUI.

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## PROJECTS

### Mulberry Fashions - Men's Fashion E-commerce Platform

- Full-Stack Development: Built a comprehensive E-commerce application using Django and PostgreSQL, following the MVC (Model-View-Template) architecture and a responsive UI using Bootstrap.
- Database Management: Managed complex data relationships in PostgreSQL and Django ORM for product inventory, user accounts, and orders.
- Multi-User Roles: Developed three distinct interfaces: Customer: Browsing, cart management, and order history. Vendor: Product management, stock tracking. Admin: Full site control, user management and coupon management.
- Payment Integration: Integrated the Razorpay API to handle secure online payments, managing webhooks and transaction status updates.
- Deployment: Hosted the live application on AWS EC2 using Nginx as a reverse proxy and Unicorn, ensuring the site is stable and accessible online.

### JobWin - Full Stack Job Portal

Present

- Modern Tech Stack: Developing a comprehensive job portal using React, TypeScript, and Tailwind CSS for the front-end, with a Django, DRF and PostgreSQL back-end.
- Secure Authentication: Implemented OAuth 2.0 to allow users to sign in securely using Google and GitHub accounts.
- Multi-User Architecture: Designed a system with three distinct user types: Admin, Job Seekers, and Companies.
- User Management: Built full User Management functionality, enabling profile creation and role-based access control.
- Current Focus: Developing the job posting and application engine, including search filters and employer management tools.

### WallFramePhoto - Photo Frame in Wall Visualization

Present

- Advanced Frontend: Building a high-performance workspace using React, TypeScript, and Vite for real-time image manipulation.
- Canvas & Graphics: Implementing React Konva to handle complex 2D graphics, allowing users to drag, drop, and transform photo frames over wall images.
- Modern State & UI: Managing complex application states (scaling, coordinates, and filters) with Zustand and crafting a professional interface using ShadcnUI.
- Computer Vision (Planned): Integrating OpenCV.js for perspective warping and auto-matching lighting conditions between the wall and the art.
- Scaling Logic: Developing a calibration system to translate pixel coordinates into real-world measurements (Meters/Inches) for accurate sizing.

## SKILLS

- Languages: Python, JavaScript (ES6+), Typescript, SQL
- Back-end: Django, Django REST Framework (DRF)

- Front-end: React, HTML 5, CSS 3, NextJS, ShadcnUI, Zustand, Axios
- Database: PostgreSQL, MongoDB
- Tools & Version Control: Git, GitHub, Docker, Postman, Linux
- Concepts: Data Structures & Algorithms (DSA), REST APIs, OAuth, JWT Authentication
- Soft Skills: Agile Methodology, Time Management, Team Leadership, Problem Solving, Communication

## WORK EXPERIENCE

### Mary Matha Modern Rice Mill

Warehouse Manager

Jan 2024 - Jul 2024

- Led a team of workers to make sure daily operations and rice processing ran smoothly
- Managed inventory for tons of rice, keeping records accurate and checking quality daily.
- Coordinated delivery schedules for drivers to ensure all rice was shipped on time.
- Improved warehouse workflows, which helped the team work faster and reduced mistakes in shipments.
- Maintained the quality standards by performing regular audits and following guidelines.

## EDUCATION

### Brototype

Python, Django, PostgreSQL and React Full Stack Developement

Aug 2024 - Present

- Worked in work-simulated boot camp focusing on Python, Django, React, TypeScript and PostgreSQL.
- Worked under a rigorous schedule with strict weekly deadlines, simulating a real-world software development lifecycle.
- Participated in weekly technical reviews and code assessments to ensure industry-standard code quality and logic.

### Kuppam Engineering College

B.Tech in Electronics and Communication Engineering

May 2017 - Mar 2021

- Completed 4-Year Engineering Curriculum in Electronics & Communication | 2017 – 2021
- Developed analytical and problem-solving skills through practical coursework.