

MUBASHIR TANWAR

Mumbai | [Website](#) | [Mail](#) | [GitHub](#) | [LinkedIn](#)

SKILLS

Languages:	C, C++, Python, Javascript, Typescript, Golang
Frontend:	React.js, Next.js, Jinja, EJS, HTMX, Tailwind, Redux, Tanstack
Backend:	Node.js, Express, FastAPI, MongoDB, MySQL, Postgres
Libraries:	Numpy, Pandas, OpenCV, Transformers
Tools:	Git, Github, Postman, Vercel, Notion
Course:	DSA, DBMS, OS, Computer Network and Network Design

WORK EXPERIENCE

SOFTWARE DEVELOPER INTERN

Jan'25-Ongoing

ORIM Advisors, Mumbai

- Developed a **cloud provider interface** using React, TypeScript, Tailwind, TanStack, Zustand for state management.
- Led the creation of an in-house, **accessible** component library adopted across multiple services, **reducing** 2 dev days per week.
- Contributed to the **system design** of core cloud infrastructure modelled after services like S3, EC2, and RDS.
- Independently developed scraping pipelines, internal utility APIs, and custom UIs for trading data, used by company personnel and integrated into internal systems.

DEEP LEARNING INTERN

Jan'24-Oct-24

National Informatics Centre, Mumbai

- Achieved **83% accuracy** with a multimodal **Vision Encoder-Decoder model** for Marathi text recognition.
- Automated 90%** of dataset labelling, generating more than **135,000 labelled entries**.
- Developed a production Django API for efficient PDF OCR and duplicate detection using **Elasticsearch**.

FULL STACK ENGINEER

Feb'24-Sept-24

Fuzzy Nodes, Sydney (Remote), [bestfares365](#)

- Engineered a complex **CRM** and **airline booking** website from the ground up, handling all business logic.
- Integrated an **agent wallet system** with transaction logs, booking management, and dynamic pricing controls.
- Implemented an **algorithm** to identify and offer the **cheapest** flight options.

PROJECTS

Freelance Projects

May'24-Ongoing

- Productized a reusable eCommerce **template** featuring order and inventory management, **CMS**, **dashboards** with analytics, subscriptions, checkout, etc. Built and implemented across multiple international platforms.
- Developed custom eCommerce platforms:
 - [CardAgain](#): Pokémon trading site with **memberships**, tier-based giveaways, and **referral** programs.
 - [Press-On-Nails](#): Beauty product store with **loyalty points**, referrals, and redemption workflows.
 - [WWTG](#): B2B platform with **custom** seller pricing, Bulk ordering logic.
 - [Dreamrich](#): Giveaways, Rewards and Memberships (Now Discontinued)
- Delivered specialized platforms for diverse domains:
 - [Prana](#): Daily astrology site with **consultation booking** features.
 - [Savaa](#): Real estate listing platform with clean UI and filters.
 - Machinery Industries Tech (KSA) and Unilosa: Internal ERP and CRM systems tailored to business

Sudoku – Solver / Generator

Feb'23–Mar'23

- Applied Knuth's Dancing Links algorithm to efficiently solve and generate Sudoku puzzles.
- Compared and optimized solving techniques, including backtracking and 2D Boolean arrays.
- Enhanced performance with a diagonal fill technique for quicker grid generation.

Timetable Generation System (UCTP Solver using Genetic Algorithm)

Sept'23–Jan'23

- Developed a timetable generation tool based on the University Course Timetabling Problem (UCTP), leveraging a Genetic Algorithm for constraint satisfaction.
- The system efficiently generated accurate timetables that adhered to all hard and soft constraints, achieving faster convergence and better scalability compared to traditional heuristics.

EDUCATION

University of Mumbai - M.H.S.S.C.E

2021 - 2025

Bachelor of Engineering in Computer Science Engineering (AIML)

CGPA 8.0/10.0