MUHAMMAD ROWAHA

Software Engineering, Full Stack Development
developing solutions for scalability and improved efficiency

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Experience

Software Developer | @Layermark   April 2023 - Present
- Developed re-usable **Python** modules for video-processing, pdf generation, and AI models
- Developed client-side wrappers for **Tensorflow** and **ONNX** face-recognition, OCR and liveness-detection models providing simple API
- Integrated **Next.js** and **Bpmn.js** via **MobX** based plugin architecture assuring scalability and maintainability

Application Developer | @Layermark   Jan 2023 - April 2023
- Seamlessly upgraded a legacy **MFC** app from **CNTK** model to **Yolov5** model
- Developed a cross-platform version using **Electron.js** and **Next.js**
- Implemented **TOML** configurations for improved user-friendliness and personalization
- Developed new **Tkinter** GUI modules connected over **ZeroMQ** allowing quick UI improvements

Full-Stack Developer | @Otsimo   June 2023 - August 2023
- Created **Go** and **gRPC** microservice to migrate file-based configurations to **MongoDB**
- Developed **CLI** tool for seamless transition and backwards compatibility
- Developed related **React.js** admin portal adhering to established designs for cohesive UX

Education

Bachelor of Computer Engineering | Bilkent University, Ankara   Sep 2021 - June 2025
- **Relevant Coursework:** Operating Systems, Database Systems, Object-oriented Engineering, Programming Languages Concepts, Data Structures & Algorithms, Computer Organization, Software Architecture
- **Highlights:** High Honor & Honor student throughout, Full merit scholarship recipient

Skills

- **Programming Languages:** Typescript/Javascript, Java, Python, Go, C/C++, Html/Css
- **Frameworks:** Next.js, Redux, Mobx, Turborepo, Spring Framework, Express.js, FastAPI, Pandas
- **Web Technologies:** Docker, Redis, MinIO, gRPC w/ Protobufs, RESTful APIs
- **Cloud and Databases:** AWS, Vercel, Railway, Postgresql, MongoDB Developer
- **Tools:** Postman, Git/Github, Shell Scripting

Projects

Campus Connect
Stack: Java, Spring, Nextjs (on Turborepo), Postgresql, Redis, Cloud(Vercel, Railway, Docker)
- Conducted **requirements elicitation** with **Figma** mockups and **UML** diagrams such as **Activity** & **Class Diagrams**.
- Developed a **robust**, **containerized** backend with an object store for media & a **secure** app protected with multiple JWT signing keys and API keys.
- Developed both admin & user apps in monorepo following best practices of API layers, customs hooks, stage management, & auth
- **Links:** Repository

Bilart
Stack: Python, FastAPI, Nextjs. Postgresql, Docker
- Developed an app for art enthusiasts to host art auctions, webinars, art, wishlists and collections
- Implemented a basic **ORM** to support triggers, views, aggregations, and models from abstract base classes
- **Links:** Repository

N-Children Tree Animator
Stack: Nextjs, CSS, Native Browser API, Vercel
- Created a framework agnostic tree animator with support including drag, zoom, scroll, and snapshot into JSON, with no third party libraries
- **Links:** Repository , App