

Mohammed S. Yaseen

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Full-stack software engineer with 5+ years of experience building scalable web, desktop, and AI systems

WORK EXPERIENCE

Software Engineer (Founding Team), FileMap Jul 2020 – Present

- Led development of the viewers subsystem, responsible for transforming large files (images, videos, 3D models, PDFs) into fast, lightweight representations for rendering.
- Architected the frontend rendering engine, enabling smooth, responsive interaction while rendering 20,000+ assets concurrently.
- Built and maintained core production systems across the stack using TypeScript, Node.js, React, Electron, PostgreSQL, and WebGL, including internal process management and cross-platform filesystem tooling
- Optimized CI/CD pipelines for testing, building, signing, and deploying our Electron application on macOS and Windows, reducing deployment time from hours to minutes and lowering monthly CI costs by over 90%.

Freelance Full-Stack Software Engineer, Upwork 2022 – 2024

- Built and shipped applications using TypeScript, Node.js, React, Next.js, Nest.js, GraphQL, PostgreSQL, Neo4j, Tailwind CSS, and MobX, with testing via Jest and Cypress.
- Maintained a 100% Job Success Score on Upwork, completing 10+ projects, and earned Top Rated Plus status (top 3% of talent).
- Served as a long-term contributor to CodeLab, a no-code web application builder, contributing 1,700+ hours across frontend and backend development.

Undergrad Research Assistant, University of Illinois Urbana-Champaign Jun 2021 – Sep 2021

- Selected as one of 19 students from 200+ applicants for the UIUC+ Summer Undergraduate Research Program, working with Prof. Darko Marinov.
- Applied NonDex to detect flaky tests and non-deterministic behavior in open-source Java projects, contributing fixes via pull requests, and explored a JavaScript adaptation of NonDex.

CORE SKILLS

- **Languages** TypeScript, JavaScript, Python, Java, C++, C, SQL, Cypher
- **Technologies** Node.js, React, Redux, MobX, Electron.js, Nest.js, Tailwind CSS, Three.js, WebGL, LangChain, Hugging Face, Stable Diffusion, OpenAI API, GraphQL, PostgreSQL, MongoDB, Neo4j, MikroORM, Jest, Cypress, Socket.io, Docker, CI/CD (GitHub Actions), Atomic Design
- **Spoken** English (Native-level) Arabic (Native) Turkish (Fluent) French (Basic)

EDUCATION

Bilkent University, Ankara, Turkey, B.S. of Computer Engineering 2018 – 2022

PUBLICATIONS

- **A Generic and Efficient Python Runtime Verification System and its Large-scale Evaluation.** Zhuohang Shen, **Mohammed Yaseen**, Denini Silva, Kevin Guan, Junho Lee, Marcelo d'Amorim, Owolabi Legunsen. *TBD.*, 2026.

SELECTED PROJECTS

Waylum – AI-Powered Design Tool

Built a generative design pipeline using Stable Diffusion, ControlNet, and LoRA to transform rough compositions into high-fidelity visual outputs, with a React and TypeScript frontend focused on rapid creative iteration.

ModMod – AI Model Composer

Developed a web-based system for composing AI pipelines by connecting heterogeneous models and modalities, enabling flexible orchestration through a modular, graph-based architecture.