

Mohamed Hosam

SOFTWARE ENGINEER · FULL STACK DEVELOPER

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Experience

Metal Maker 3D

Krakow, Poland

PYTHON SOFTWARE ENGINEER INTERN

July 2023 - September 2023

- Spearheaded a Python software development role at [MetalMaker3D](#), leading a team in the creation of a plugin for [UltiMaker Cura](#) 3D printing software. The plugin's primary function was to automatically generate sprues, cone-like structures attached to 3D shapes, facilitating the casting of printed 3D parts. This innovation streamlined the metal casting process in 3D printing.
- As the team leader, organized the project by breaking it down into manageable tasks, ensuring each team member had a well-defined role and responsibility. Leveraged Agile Methodology and GitHub for task management, fostering collaboration and transparency among team members.
- Contributed to advancing the company's mission to enhance 3D printing capabilities and metal casting processes, ultimately delivering a valuable tool for the UltiMaker Cura 3D printing software that improved efficiency and user experience in 3D part production.

Kocaeli University

Kocaeli, Turkey

FULL STACK DEVELOPER

Jun. 2022 - Nov. 2022

- Developed [Food Scholarship Website](#) using [ASP.Net MVC](#) for student applications and ensured security.
- Built a user-friendly scholarship application form, minimizing errors during submission.
- Ensured robust student login and authentication for secure scholarship application access.
- Designed an intuitive application view page, enabling students to manage submissions.
- Implemented mandatory field validation controls in the application form for data accuracy.
- Proactively addressed and resolved post-deployment bugs and student issues.

Skills

Programming	C, Node.js, Python, Git, Bash, Kotlin, JavaScript, TypeScript
Back-end	MongoDB, Express, MySQL, ASP.NET MVC, REST API, Prisma
Front-end	HTML5, CSS, JavaScript, NextJS, ReactJS, Razer Pages, React Native, Android Studio
Others	Git, GitHub, Agile, SCRUM, Material UI, Tailwind CSS
Languages	Arabic, English, Turkish

Projects

E-Commerce Website

[preview](#)

NEXTJS FULL STACK

NextJS, Typescript, MYSQL, Prisma, Tailwind

- Developed a high-performance ecommerce website using NextJS, TypeScript, MySQL, Prisma, and Tailwind, utilizing server-side components to significantly enhance page loading speed, resulting in a seamless user experience and improved SEO performance.
- Implemented a feature-rich product page that dynamically displays products from a MySQL database, accompanied by a robust shopping cart functionality utilizing cookies for seamless user interaction and tracking, enhancing the overall shopping experience.
- Integrated secure user authentication with NextAuth to ensure users can register, log in, and access personalized features, including managing their account information, addresses, and an efficient checkout process that allows for seamless order placement and tracking.
- Designed an intuitive admin dashboard that empowers administrators to efficiently manage orders, update order statuses, add or modify products, and access comprehensive sales and profit reports, providing valuable insights for business decision-making and growth.

Education

Kocaeli University

Kocaeli, Turkey

B.S. IN COMPUTER ENGINEERING

- Turkey Scholarship Holder for Undergraduate Students. GPA of 3.5