Mohammed Ehap

Software Engineer

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PROFILE

Dedicated Software Engineer with experience in designing and developing **web applications** using **JavaScript**, **Python**, and **Go**. Proficient in front-end frameworks like **ReactJS**, **Next.js**, and back-end technologies including **Node.js** and **Express.js**. Skilled in **cloud computing**, **DevOps**, and **Agile methodologies**, with a strong focus on delivering high-quality, scalable solutions. Passionate about **problem-solving** and driving innovative projects.

EDUCATION

Bachelor of Science in Computer Science   Cairo, Egypt
Arab Open University
- Awarded dual certification from both Arab Open University and The Open University.

EXPERIENCE

Java Developer   10/2024 – present | Egypt
Ministry of Communications and Information Technology
(*MCIT*) *- DEPI*
- Developed a **simple ATM system logic** as a practical application of **Object-Oriented Programming (OOP)** concepts using **Java**.
- Conducted in-depth research to understand how the **printStackTrace** method operates under the hood, successfully tracing its functionality to the **System.java** file.
- Collaborated with team members to implement and optimize system features, ensuring efficient and clear code structure.

Software Engineer   03/2023 – present
Freelancer
- Designed and developed **cloud-based applications** using **JavaScript**, **React**, **Node.js**, and **AWS**.
- Improved delivery timelines by **15%** through efficient **Agile practices**.
- Deployed **full-stack applications** to enhance user experience and performance.

Front-End Developer   10/2022 – 11/2023 | Egypt
Udacity - DECI
- Delivered responsive, high-performance **web applications** using **HTML**, **CSS**, **JavaScript**, and **Tailwind CSS**.
- Identified user problems and conducted **interviews** to gain deeper insights into challenges and gather **suggestions** and **potential solutions**.
- Created hand-drawn **sketches** and website designs to address user issues effectively.
- Developed **presentations** and **prototypes** to showcase solutions, ensuring alignment with user needs.
- Served as the **presenter** for final project demonstrations, effectively communicating solutions and technical approaches to stakeholders.
- Worked collaboratively within **Agile teams**, managing sprints and ensuring adherence to project deadlines.

COURSES

Agile Software Developer ✎   12/2023 – 09/2024
Udacity
- Applied Agile principles to lead software development teams in delivering high-quality projects.
- Collaborated with cross-functional teams to implement Agile frameworks, improving project efficiency and team collaboration.
- Delivered presentations to leadership on the benefits of Agile and its application to improve team performance.

Cloud Application Development ✎   04/2023 – 06/2023
IBM
- Delivered enterprise-grade web applications using **React**, **Redux**, and **Express**.
- Integrated front-end and back-end services to optimize performance and scalability.
- Led feature development and debugging for large-scale projects.

Front-End Developer 🔗   12/2023 – 04/2023
Meta
- Developed responsive and high-performance web applications using **React JS**, **Bootstrap**, and **Redux**.
- Collaborated with cross-functional teams to deliver features on tight deadlines.

CERTIFICATES

- Meta Front-End Developer Professional Certificate 🔗
- AWS Educate Introduction to Cloud 101 🔗
- Galactic Problem Solver (NASA) 🔗
- Arab Artificial Intelligence Summit (Bahrain Ministry of Interior) 🔗
- Python Professional (Ministry of Defense of Egypt) 🔗

- Applied Software Engineering Fundamentals Specialization (IBM) 🔗
- Developing Cloud Apps with Node.js and React (IBM) 🔗
- Agile Software Developer - Bertelsmann (Udacity) 🔗
- Python Fundamentals (Ministry of Defense of Egypt) 🔗

- Cloud Application Development Foundations Specialization (IBM) 🔗
- Developing AI Applications with Python and Flask (IBM) 🔗
- McKinsey Forward Program 🔗
- Python Advanced (Ministry of Defense of Egypt) 🔗

PROJECTS

Flask Emotion Detection 🔗
Tools & Technologies: *Flask, Python, IBM Watson AI Libraries*
- Developed a web application integrating **AI functionality** using **IBM Watson libraries** for **NLP** and **speech-based tasks**.
- Deployed the application using **Flask**, incorporating **error handling** and performing **unit testing** to ensure reliability.
- Conducted **static code analysis** to maintain high-quality code and optimize performance.

MERN Auth 🔗
Tools & Technologies: *MongoDB, Express.js, React.js, Node.js, Redux Toolkit, React Bootstrap*
- Developed a **boilerplate for MERN authentication**, implementing **JWT-based authentication** stored in **HTTP-Only cookies** for enhanced security.
- Utilized **Redux Toolkit** for state management and **React Bootstrap** for responsive design.

Image Resizer 🔗
Tools & Technologies: *TypeScript, Node.js, Express.js, Prettier, ESLint, Jasmine, Sharp*
- Built an API for **image resizing and serving** using **TypeScript** and **Sharp**.
- Implemented **placeholder image generation** and a **cached image library** for efficient processing.
- Developed unit tests for API endpoints using **Jasmine** to ensure reliability.
- Followed **industry best practices** with **ESLint**, **Prettier**, and scalable architecture.

SKILLS

Languages:
JavaScript, TypeScript, Python, Go, Java, C#

Cloud & DevOps:
AWS, Docker, Git

Front-End:
React JS, Next JS, Redux, HTML, CSS, SASS, Tailwind CSS

Methodologies:
Agile, Scrum

Back-End:
Node JS, Express JS, Fiber, PostgreSQL, MongoDB

VOLUNTEERING

Microsoft Student Club - AOU   09/2024 – present
Head of Web Development

- Developed both **online and offline courses** to enhance university students' skills in **web development**.
- Created and led a plan to develop courses on **Intro to Web Development**, **React**, **Angular**, **.NET**, **Flask**, and **Django**, collaborating with a team of 10 members.
- Designed and implemented a **task management system** using **Jira**, integrated with **Slack** to enhance team communication and streamline workflow.
- Applied **Agile methodologies** to ensure successful and timely course delivery.
- Conducted **training sessions** and performance reviews to boost team productivity and skills development.