



MOHAMED MAHMOUD HAWBETT

SOFTWARE ENGINEER

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Professional Summary

Aspiring Full Stack Developer with hands-on experience in building and maintaining scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js). Skilled in React.js and Next.js, integrating RESTful APIs and SQL backends. Experienced in writing clean, maintainable code and collaborating with cross-functional teams to deliver high-quality solutions. Skilled in creative problem-solving and leveraging cutting-edge development practices to drive business growth.

Education

Ibn Tofail University

Master's in Software Engineering for the Cloud

2024

Kenitra, Morocco

Choaib Dokkali University

Bachelor of Science in Computer Science

2021

El Jadida, Morocco

Experience

Ramaqs Consulting & Solution

Apr 2023 – Oct 2023

Software Engineer Intern

Kenitra, Morocco

- Developed a deep learning model for classifying fingerprints into five categories, achieving an accuracy of 95%.
- Implemented the model using Python, OpenCV for image processing, and TensorFlow for building the neural network.
- Collaborated with team members to design and implement a desktop application for fingerprint classification using Tkinter and SQL, resulting in improved user experience.
- Conducted unit testing to ensure functionality and accuracy of the developed application, reducing bugs by 20%.

Skills

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, PHP

Back-End Technologies: Node.js, Express.js, Spring Boot, Flask, RESTful APIs

Front-End Technologies: React.js, Next.js

Technologies and Tools: Git, Docker, Vercel, TensorFlow, PyTorch, OpenCV, Jira, LaTeX

Databases: MySQL, MongoDB, PostgreSQL, SQL

Methodologies: Agile/Scrum, Code Reviews, Debugging

Additional Knowledge: Artificial Intelligence and Deep Learning, Blockchain (Ethereum, Solidity), Authentication (JWT), API Design, User Interfaces (Tkinter), Full-stack Development

Projects

Currency Exchange Manager App | *Python, PyQt5, SQLAlchemy, Alembic*

- Developed a desktop application for managing currency exchanges using **PyQt5** for a dynamic and user-friendly GUI.
- Implemented **SQLAlchemy** as an ORM for managing relational databases and ensuring efficient data handling.
- Used **Alembic** for database migrations, enabling smooth schema evolution and version control.
- Followed Agile methodologies, conducting sprints to ensure iterative development and frequent feedback.
- Integrated real-time currency exchange rates using external APIs to provide accurate and up-to-date conversions.
- Designed robust transaction management features, allowing users to log and review exchange transactions securely.
- Ensured maintainability by writing unit tests and applying **TDD (Test-Driven Development)** principles.

WatchBox | *Next.js, Node.js, MySQL*

- Developed a responsive movie-tracking application using **Next.js** for the front-end, leveraging features such as server-side rendering (SSR) and static site generation (SSG) to optimize performance.
- Integrated third-party APIs to fetch and display dynamic movie/show data, enhancing the user experience with real-time updates.
- Implemented personalized user dashboards and robust watchlist management, allowing users to track and organize their favorite movies and shows seamlessly.
- Designed and managed relational database schemas in **MySQL** to store and efficiently handle user and movie data.
- Applied modular and maintainable coding practices, ensuring scalability and ease of feature addition.

E-commerce Website | *React.js, Node.js, MongoDB, Express.js*

- Built a responsive full-stack e-commerce platform with dynamic product listings and user authentication.
- Utilized Next.js for enhanced performance and SEO via server-side rendering (SSR).
- Designed RESTful APIs to ensure seamless interaction between front-end and back-end components.

Secure Electronic Voting System | *Solidity, Ethereum, Java J2EE, MySQL*

- Designed and implemented a decentralized voting application using Solidity, ensuring tamper-proof voting.
- Created and deployed smart contracts to manage voter authorization, vote casting, and vote tallying on the Ethereum blockchain, improving security and transparency.

Library Management System | *Java, Spring Boot, HTML, CSS, MySQL*

- Developed a Java application with Spring Boot for comprehensive and secure management of library books, loans, and members.
- Utilized MySQL to create a relational database for the application.

Speech Recognition App | *Python, Flask, TensorFlow*

- Developed a web-based speech recognition application using Flask as the backend framework.
- Implemented machine learning algorithms for speech-to-text conversion, utilizing TensorFlow for model training, achieving 90% accuracy.

Languages

Arabic: Native
English: Fluent
French: Fluent

Publications

Resnet-F: Fingerprint Analysis Using CNNs for Type Identification and Ridge Quantification

Interests

Interests: Deep Learning, Full-stack Development, Blockchain, Cloud Computing