Saud Makeen

Backend Engineer • Systems Strategist

sm.makin@outlook.com | +966 53 609 9733 | LinkedIn | Riyadh, Saudi Arabia

PROFESSIONAL SUMMARY

Backend engineer at Gathern, building scalable APIs, internal tools, and backend systems using Laravel, Yii2, and Docker. I have a degree in Computer Science. For my graduation project, I built a flood prediction system using Python, machine learning, and real-time IoT data. During my internship at Beaee, I worked on backend systems using PHP and SQL and built mobile apps with React Native. Driven by clean architecture, reliable code, and building systems that last. Continuously exploring AI and cloud technologies.

EDUCATION

Bachelor's degree in Computer science

King Faisal University   **Sep 2017 - Oct 2024**

Al Ahsa, Hofuf

User Experience and Interface Design

Tuwaiq Academy, Boot Camp   **Aug 2024 - Oct 2024**

Remote

EXPERIENCE

Backend Engineer

Gathern   **Jan 2025 - Present**

Onsite

Building scalable APIs and backend systems

Maintained and enhanced hybrid Laravel/Yii2 architecture. Developed and maintained RESTful APIs. Optimized database performance through strategic query improvements and indexing. Implemented Docker containerization to streamline development workflows. Refactored legacy codebase to improve maintainability and performance. Created internal tools and automation scripts to enhance productivity.

Technical Skills Used: Laravel, Yii2, PHP, MySQL, MongoDB, Docker

Software Development Intern

Beaee   **Jun 2024 - Sep 2024**

Onsite

Developed cross-platform mobile applications using React Native. Designed and implemented robust REST API endpoints. Collaborated with design team using Figma for seamless UI/UX implementation. Designed optimized database schemas and improved query performance. Implemented responsive web designs using Bootstrap framework. Integrated mobile applications with backend services.

Technical Skills Used: PHP, SQL, React Native, API Development, Figma, Bootstrap

Computer Science Student

King Faisal University   **Sep 2018 - Jun 2024**

Al-Ahsa, Saudi Arabia

Graduation Project: AI Flood Prediction System

Integrated cost-effective IoT sensor solutions for real-time monitoring. Trained and optimized machine learning models for predictive analytics. Built real-time data processing pipelines for immediate insights. Programmed Arduino microcontrollers for IoT device functionality. Designed early warning systems with automated alert mechanisms. Performed data analysis and created visualizations using Python.

Technical Skills Used: Python, Machine Learning, IoT, Arduino

PROJECTS

Gathern Backend Systems

Current Role Project | In Production   **Jan 2025 - Present**

Working on hybrid Laravel and Yii2 codebase, building backend APIs, internal tools, and integrating with external systems. Writing testable code and maintaining scalable architecture.

Delivered restful apis with comprehensive testing and documentation. Implemented query performance improvements and indexing strategies. Implemented modernizing yii2 codebase while maintaining compatibility. Implemented containerized development environments and deployment.

Technologies Used: Laravel, Yii2, MySQL, MongoDB, Docker, PHP, Redis, Git

AI Flood Prediction System

Graduation Project | Completed   **2024**

Low-cost, real-time flood prediction system using AI and sensors. Built for my graduation project, it provides early flood alerts using ultrasonic sensors and machine learning models.

Deployed ultrasonic sensors for water level detection. Trained machine learning models for flood forecasting. Connected arduino-based sensor network. Constructed real-time data processing and analysis.

Technologies Used: Python, Machine Learning, Arduino, IoT, TensorFlow, Pandas, NumPy, Scikit-learn

SKILLS

Backend Development:

Laravel/PHP, Yii2 Framework, Python/ML, Node.js

DevOps & Infrastructure:

Docker, Kubernetes, Git/Version Control

Database & Mobile:

MySQL, MongoDB, React Native

Development Tools:

VSCode, Postman, Git, Figma, Docker Compose, Composer, NPM, Yarn

Testing Tools:

PHPUnit, Jest, API Testing, Unit Testing, Integration Testing

Soft Skills:

Team Collaboration, Self-Driven, Problem Solving, Code Review, Mentoring, Agile/Scrum, Technical Writing, System Design

LANGUAGES

ARABIC
Native Speaker

English
Advanced Level C1

CERTIFICATIONS

Career Ready Badge

Misk Career Essentials Program   **Aug 2024 - Nov 2024**

Remote

Credential ID 118289066

User Experience and Interface Design

Tuwaiq Academy | ???????? ????   **Aug 2024 - Oct 2024**

Remote

Credential ID J2WN7dX

Huawei Certified ICT Associate (5G)

HCIA-5G V2.0 Course   **Mar 2024 - May 2024**

Credential ID EBG20240525000226

Android Development with Kotlin

Google Developer   **Mar 2023 - Jun 2023**

Remote

Osha Safety At Work

30 NASP   **Jun 2025 - Jul 2025**

High Industrial Technical Training Institute

Credential ID 22677

INTERESTS

Machine Learning, Cloud Computing, System Architecture, API Development, DevOps, Artificial Intelligence