

Ahmed Gharghar

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PROFESSIONAL SUMMARY

Software Engineer, AI Specialist, and Web Application Developer with expertise in developing intelligent systems and scalable web solutions. Specialized in integrating computer vision, natural language processing, and optical character recognition technologies to solve complex business challenges in logistics and enterprise applications.

Proficient in full-stack development with primary focus on Vue.js and Nuxt.js frameworks for building clean, functional, and user-centric web applications. Experienced in implementing end-to-end AI pipelines, from model development and evaluation to production deployment using modern frameworks and best practices.

Committed to continuous learning, code quality, and knowledge sharing while delivering innovative solutions that drive operational efficiency and business value.

SKILLS

Skills:

- **Problem Solving**
- **Time Management**
- **System Analysis and Design**

Technologies:

- **JavaScript**
- **TypeScript**
- **Node.js**
- **Dart**
- **Python**
- **Vue**
- **Nuxt**
- **Svelte**
- **HTML**
- **CSS**
- **TailwindCSS**

EDUCATION

Software Engineering - Bachelor's Degree

College of Computer Technology - Tripoli | January 2022 - November 2025

- Focused on key areas such as software development, algorithms, programming languages, system architecture, and database management.
- Gained proficiency in languages such as Java, C, Python, and JavaScript.
- Developed practical skills in software engineering methodologies, including Agile and Scrum, for efficient project management.

WORK HISTORY

Software Engineer & AI Specialist - October 2025 - Present **Ghrghar Group - Benghazi, LY**

Providing technical consultation and strategic planning for software development projects.
Leading cross-functional teams to deliver scalable and efficient software solutions.
Implementing best practices in software architecture and development methodologies.
Mentoring junior developers and conducting code reviews to maintain high code quality.
Collaborating with stakeholders to define project requirements and deliverables.

Software Engineer & Frontend Web Developer - March 2025 - September 2025 **VANEX - Tripoli, LY**

Developed and maintained responsive web applications using Vue.js and Nuxt.js frameworks.
Collaborated with UI/UX designers to implement pixel-perfect, user-centric interfaces.
Integrated RESTful APIs and backend services to create dynamic, data-driven applications.
Optimized application performance through code splitting, lazy loading, and efficient state management.
Participated in agile development processes, including sprint planning and daily stand-ups.
Wrote comprehensive unit tests and conducted thorough testing to ensure application reliability.
Utilized Git for version control and participated in code review processes.

Software Engineer - September 2024 - September 2025 **General Authority of Awqaf and Islamic Affairs - Tripoli, LY**

- Design, develop, and maintain software applications to support the Authority's digital services.
- Build scalable, secure, and efficient software solutions that meet organizational requirements.
- Write clean, maintainable, and efficient code following best practices and development standards.
- Collaborate with UI/UX designers to integrate user-centered design principles, ensuring an intuitive and seamless user experience.
- Work closely with backend developers to build scalable, efficient solutions that align with the overall system architecture.
- Create a clear technical documentation for software development processes, system designs, and user guides.
- Propose and implement optimizations to enhance the overall performance, scalability, and user experience of the Authority's software systems.
- Provide regular updates on project status, including progress, challenges, and resolutions, to management and stakeholder

Web Application Developer - April 2024 - Present **Freelancer**

- Developed and maintained web applications using a range of technologies such as HTML5, CSS3, JavaScript, and vue.js / nuxt.js to build responsive and dynamic user interfaces.
- Collaborated with cross-functional teams, including designers and backend developers, to implement robust and scalable web applications.
- Designed and optimized user interfaces to enhance the user experience and performance of applications.
- Integrated third-party APIs and external services into web applications to extend functionality and improve user interaction.
- Conducted code reviews and maintained adherence to best coding practices to ensure the quality and scalability of applications.
- Optimized the performance of web applications by reducing load times and improving overall speed through efficient coding
- Managed version control using Git to streamline collaboration and ensure smooth code deployments to production environments.
- Wrote unit tests to ensure code quality and minimize the risk of bugs in production systems.

Director of Information and Documentation Office - June 2023 - June 2024
Ain Shams Institute - Tripoli, LY

- Lead and manage the Information and Documentation Office to ensure alignment with the overall goals of the institute.
- Oversee the development and implementation of information management, documentation, and archival systems.
- Ensure the continuous improvement of the institute's network infrastructure and website.

PROJECTS

Comparative Analysis of OCR Models for Arabic-English Bill of Lading Text Extraction
June 2025 - October 2025

Conducted comprehensive performance evaluation of PaddleOCR vs EasyOCR for automated text extraction from shipping Bills of Lading documents. Achieved 70% faster inference speed and 24.7% lower Character Error Rate (CER) with PaddleOCR compared to EasyOCR.

Implemented end-to-end AI pipeline: YOLOv8 for document detection → OCR for text extraction → BERT for text classification → FastAPI for deployment. Applied advanced preprocessing techniques including rotation correction using ORB, denoising, and contrast enhancement. Followed CRISP-DM methodology for structured project execution and documentation.

Developed FastAPI backend server for production deployment of OCR models.
Technologies: Python, PaddleOCR, EasyOCR, YOLOv8, BERT, OpenCV, FastAPI, PyTorch, pandas, matplotlib.
Contributed to advancing Arabic NLP research and logistics automation solutions.