

MUAYAD AYESH

Senior Full-Stack Engineer | Machine Learning Enthusiast

Contact Information

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Professional Summary

Senior Full-Stack Engineer with 6+ years in HealthTech and BioTech. Lead cross-functional teams and ship complex systems. Strong in Python, Next.js, Node.js, and cloud on AWS and Azure. Build ML and computer vision pipelines for text recognition and data extraction using PyTorch, OpenCV, Tesseract, and MMOCR. Own the full lifecycle from requirements and sprints to deploy and ops. Improve cost, speed, and reliability. Run Agile, plan resources, and manage risk. Deliver on time while keeping code quality and team output high.

Core Skills

Project Management & Leadership

- Sprint Planning & Retrospectives
- Stakeholder Management
- Cross-functional Team Leadership
- Project Roadmap & Timeline Management
- Resource Allocation & Capacity Planning
- JIRA, Confluence, Linear, Asana
- Budget Management & Cost Optimization
- Technical Documentation & Reporting
- Agile/Scrum/Kanban Methodologies

Machine Learning & Computer Vision

PyTorch, TensorFlow, Scikit-learn, OpenCV, Tesseract, MMOCR, EasyOCR

Languages & Frameworks

- Python, Django
- NextJS, ReactJS, NodeJS

Cloud & DevOps

- AWS Infrastructure (EC2, Lambda, ECS, Fargate, S3, RDS)
- Microsoft Azure (App Services, AKS, SQL Database)
- Terraform, OpenTofu
- Docker & Kubernetes
- CI/CD (GitHub Actions, AWS CodePipeline, Azure DevOps)

API & Security

- OAuth 2.0, OpenID Connect
- JWT, Token-based Authentication
- Swagger, OpenAPI, Redoc
- API Gateway, Load Balancers

Architecture & Design

- SOLID Principles, Modern Design Patterns
- Serverless Architecture
- Microservices

Entrepreneurship

HexTune (hex-tune.com) - Founder, 2024 - Present

Built and currently running a successful software development and consulting business from the ground up. Manage end-to-end client projects including requirements gathering, technical architecture, development, deployment, and ongoing maintenance. Handle all business operations including client relationships, project scoping, pricing, and delivery timelines while maintaining full-time employment, demonstrating exceptional project management and time management capabilities.

TechStack: NextJS, Python Django, AWS Fargate, AWS RDS

Professional Experience

HealthinTech | Remote, USA (healthintech.com) - **contract**)

A Nasdaq listed firm (NASDAQ: HIT)

Technical Lead - Product Engineering | *July 2025 - Present*

Senior Software Engineer - Product Engineering | *December 2024 - July 2025*

- Led a squad of 6 across three workstreams. Hit $\geq 90\%$ sprint goals. Cut infra cost $\sim 28\%$ with IaC and right-sizing.
- Managed end-to-end product development lifecycle including sprint planning, resource allocation, risk mitigation, and stakeholder coordination
- Built member and payer portals aligned with HIPAA rules. Added audit logs, least-privilege, and PHI access review.
- Led monolithic to microservices migration improving scalability by $\sim 88\%$; integrated with major EHR systems (Epic, Cerner, HL7, FHIR)
- Managed AWS infrastructure budget, achieving 28% cost reduction through optimization and IaC implementation
- Delivered bi-weekly executive reports, facilitated technical workshops for clinical stakeholders, and mentored 6 engineers

Remitz, Inc | Remote, USA (remitz.com)

Platform Engineering & Machine Learning | *August 2022 - Jun 2025*

- Built and deployed on-prem ML pipelines integrated with AWS using zero-trust configurations
- Led 12 engineers across 5+ platform releases, raising sprint velocity by 40%
- Applied computer vision and OCR models (Tesseract, MMOCR, custom CNNs) to process thousands of scientific documents and patents
- Partnered with research teams to convert domain requirements into reproducible ML workflows and deployment plans
- Designed full-stack systems (Django, React, Node) and REST/GraphQL APIs handling 200K+ daily requests for bioinformatics tools
- Managed AWS infra with Terraform (ECS, Fargate, RDS, Lambda), cutting deployment time 60% and costs 25%
- Set up pytest/Jest test suites reaching 85% coverage and caching strategies that improved latency by 70%
- Mentored engineers and delivered documentation using Swagger/OpenAPI

Glance.Care | Remote, Saudi Arabia (glance.care)

Back-end Python Engineer | *November 2021 - August 2022*

- Coordinated with product managers, clinical stakeholders, and frontend team of 4 engineers on sprint planning and API development for medical claims processing
- Developed Django applications and REST/GraphQL APIs serving 100K+ daily transactions with 99.8% availability and **HIPAA** compliance (JWT, OAuth)
- Integrated external systems (insurance providers, payment gateways) and implemented background processing for 5M+ record datasets using pandas
- Managed AWS infrastructure (EC2, Lambda, RDS) using CloudFormation/Terraform; implemented CI/CD pipelines reducing deployment time by 50%
- Achieved 80% test coverage using pytest and Factory Boy; optimized database performance through query tuning and strategic indexing

ALGOFY.AI | On-site, Dubai, UAE (algofy.ai)

Back-end Django & Microsoft Azure Engineer | *September 2019 - November 2021*

- Participated in Agile/Scrum ceremonies and collaborated with product managers and frontend team of 3 on sprint planning, estimation, and timely feature delivery
- Led code reviews for 4 engineers, mentored 2 junior developers, and conducted workshops on Django and Azure best practices
- Developed Django applications and RESTful APIs for insurance policy sales processing 50K+ monthly transactions
- Managed Azure infrastructure (App Services, AKS, SQL Database) using ARM templates and Azure CLI; configured auto-scaling and monitoring
- Implemented CI/CD pipelines using Azure DevOps; optimized database performance improving response times by ~62%

Education

B.Eng., Software Engineering - University of Palestine, 2015