

# ABDUSSAMAD FAROOQ SAEED

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## ABOUT

Senior AI Engineer with high performance computing and advanced Linux systems expertise. I build production AI systems using LLMs and computer vision models. My work spans autonomous systems, embedded AI, and large scale HPC environments. I deliver secure and efficient software with measurable performance gains. From research to deployment, I ship systems that run reliably in real world conditions.

## WORK EXPERIENCE

<b>AI Engineer (Full-Time)</b> Eqlaq.sa	Feb 2026 — Present <i>Al-Khobar, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Designing and building agentic AI systems for Vibe coding and automated web development</li><li>Developing production grade Next.js applications powered by AI agents</li><li>Delivering enterprise AI solutions for multiple Eqlaq clients</li></ul>	
<b>Agentic AI Engineer</b> Traffic Hi Tech Company	Aug 2025 — Feb 2026 <i>Al-Khobar, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Built enterprise AI systems for live traffic analysis and optimization across Saudi infrastructure</li></ul>	
<b>Enterprise AI Specialist</b> National Center for Vegetation Cover Development and Combating Desertification	Aug 2025 — Jan 2026 <i>Riyadh, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Designed and deployed on premise enterprise AI platforms for project management and land use land cover analysis</li></ul>	
<b>Agentic AI Engineer (Part-Time)</b> Eqlaq.sa	June 2025 — Jan 2026 <i>Dhahran, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Built AI agents to automate development workflows and improve engineering productivity</li></ul>	
<b>Cyber Security AI Researcher (Part-Time)</b> Interdisciplinary Research Center for Intelligent Secure Systems, KFUPM	Jan 2025 — May 2025 <i>Dhahran, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Built AI agents for automated penetration testing using lightweight LLMs</li><li>Designed and maintained Linux infrastructure supporting multiple postdoctoral cybersecurity researchers</li></ul>	
<b>Arabic and Islamic NLP AI Engineer (Part-Time)</b> SDAIA Joint Research Center for Artificial Intelligence, KFUPM	Sep 2024 — Dec 2024 <i>Dhahran, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Led Arabic NLP initiatives including LLM pretraining, fine tuning, and evaluation</li><li>Built a production RAG system with custom retrieval. Improved query accuracy by 35 percent</li></ul>	
<b>Cyber Security AI Engineering Intern</b> Interdisciplinary Research Center for Intelligent Secure Systems, KFUPM	Jan 2024 — Jun 2024 <i>Dhahran, Saudi Arabia</i>
<ul style="list-style-type: none"><li>Created cybersecurity datasets with 35K plus malware scripts used to train over 20 LLMs</li><li>Built a multimodal AI agent with terminal control, Python execution, web search, and RAG</li></ul>	

## EDUCATION

<b>King Fahd University of Petroleum and Minerals</b> <i>Bachelor of Science in Computer Science</i>	Dhahran, Saudi Arabia Aug 2019 — Aug 2025
<b>Relevant Coursework:</b> Computer Graphics, Game Programming, Cybersecurity, Artificial Intelligence, Independent Research in AI and Cybersecurity	

## PUBLICATIONS & RESEARCH

**Under Review:** Automating Cyber Security Penetration Testing Tasks with AI Agents Using Lightweight LLMs. First author submission to ACM journal. Expected release mid 2026.

## KEY PROJECTS

Space Debris Detection CubeSat System (Senior Capstone)

2024

- **AI and ML:** Built YOLOv11 based debris detection system. Achieved over 60 percent accuracy on Raspberry Pi 5 through model and pipeline optimizations
- **Embedded Systems:** Developed C and C++ ADCS with gyroscope and magnetometer achieving under 2 degree orientation error
- **Communication:** Implemented RF telemetry for real time data transfer and remote AI model updates
- **Simulation:** Built 3D orbital simulator in Godot for trajectory testing and collision prediction
- **Ground Control:** Developed Flask based control station with telemetry visualization
- **System Integration:** Delivered complete 2U CubeSat prototype under 5,000 SAR budget

#### Arcade Gaming Consoles

2026

- Built custom arcade console using Raspberry Pi 5
- Developed WASM based games targeting legacy hardware platforms

#### High Performance Custom Compiler ([github.com/Airbus5717/rotate](https://github.com/Airbus5717/rotate))

2021-2022

- Built recursive descent compiler in C and C++
- Achieved 150 plus MB per second tokenization on i7 and 186 MB per second on i9
- Implemented robust syntax error detection and reporting
- Maintained compatibility with C standard library while preserving C style syntax

#### Deep Agent AI Systems

2024-2026

- **Deep Agent Architectures:** Designed multi agent systems with long horizon planning, self reflection, and goal driven execution
- **Advanced Retrieval and Memory:** Built RAG systems with custom embeddings and dynamic context selection. Improved relevance by 40 percent
- **Persistent Agent Memory:** Implemented long term and episodic memory for multi session continuity
- **Agent Orchestration and Tooling:** Developed autonomous workflows with terminal access, Python execution, and web retrieval
- **Inference and Systems Optimization:** Optimized agent inference pipelines and scheduling. Reduced end to end latency significantly while preserving accuracy

### TECHNICAL SKILLS

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- **Programming Languages:** Python, C, C++, CUDA, JavaScript, Go, C#, SQL, Zig, Odin, Assembly
- **AI and ML:** PyTorch, Hugging Face Transformers, YOLO, TinyGrad, OpenCV
- **Tools and Systems:** Linux, Git, Docker, CMake, Ninja, Vim, Unity, Raylib
- **Specialization:** Systems programming, High Performance Computing, Cybersecurity, Computer Vision, NLP

### CERTIFICATIONS

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- [NVIDIA Fundamentals of Accelerated Computing with CUDA C and C++](#)

### VOLUNTEERING

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#### Accountant and Program Supervisor

Summer 2024 and 2025

Mawhibah 2025 Summer Program, KFUPM

*Dhahran, Saudi Arabia*

- Supervised over 160 high school students in intensive STEM programs
- Managed program finances and operational logistics
- Taught ESP32 based IoT course for high school students

### LANGUAGES

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- Arabic Native
- English Native