Mahmoud Kebbi
BE Computer Engineering | Junior Software Developer

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SUMMARY

Final-year Computer Engineering student with hands-on experience in cloud-native backend development and an interest in blockchain systems. Proven ability to design secure, scalable architectures on AWS that reduce costs and improve reliability. Seeking to contribute to impactful, data-driven products that scale securely in real-world environments.

WORK EXPERIENCE

TEDMOB SAL   **July 2025 – August 2025**
Software Engineering Intern   Beirut, Lebanon
- Built production-ready web and backend systems using React, Node.js, and AWS, improving scalability and maintainability.
- Developed a gamified habit tracker API with PostgreSQL and Helmet.js, enhancing engagement through XP and inventory mechanics.
- Created and deployed a self-hosted AppFlowy Cloud on AWS EKS with Kubernetes and Docker, cutting collaboration tool (Notion) costs and ensuring full data control.

Xnance LLC   **September 2024 – March 2025**
Blockchain Software Engineer   Beirut, Lebanon
- Architected and provisioned AWS infrastructure with Terraform, improving service scalability and deployment consistency, reducing manual configuration time by 60% and strengthening security posture.
- Developed and tested Solidity smart contracts on Ethereum to manage player transfers, fan engagement, and governance.
- Automated contract deployment and verification with JavaScript/Node.js scripts using Hardhat and Ethers.js.

PMIGC   **May 2024 – January 2025**
Cloud Software Engineer   Beirut, Lebanon
- Architected and deployed a middleware REST API for flight booking software using Terraform, AWS, and Python. Maintained 98% uptime and IATA messaging compliance.
- Optimized a Java Spring Boot backend and infrastructure for a flight and hotel booking engine, reducing costs and improving performance by 20%.

EDUCATION

Lebanese American University   **September 2021 - December 2025 (Expected Graduation)**
Bachelor of Engineering in Computer Engineering   Jbeil, Lebanon

SELECTED PROJECTS [GITHUB: https://github.com/MahmoudKebbi]

Peer-to-Peer Energy Trading Project | AWS, Express.js, Python, Terraform, Solidity, Ethereum   **May 2025**
- Built cloud-native microservices and smart contracts for decentralized energy trading on AWS and Ethereum. Reduced infrastructure setup time by 70% and query latency by 40%, showcasing how blockchain can drive transparent and efficient energy markets

VyraChain Backend MVP | Nest.js, Typescript, Postgres, Foundry, Solidity, Polygon, AWS   **August 2025**
- Designed a secure medical data Nestjs backend and blockchain identity system on AWS and Polygon, enabling hospitals to manage patient consent and records with full auditability. Demonstrated blockchain's potential for compliant healthcare data management.

SKILLS, LANGUAGES, AND CERTIFICATIONS

- **Programming:** Solidity, Java, Python, SQL, C#, JavaScript, TypeScript, HCL.
- **Core Competencies:** Cloud Infrastructure (AWS, Terraform, Docker, Kubernetes), Backend Engineering (Node.js, Nest.js, Python, FastAPI), Smart Contracts (Solidity, Hardhat, Foundry), CI/CD (GitHub Actions, Ansible), Data & Security (PostgreSQL, Redis, Helmet.js).
- **Languages:** Native or bilingual in English and Arabic.
- **Certifications:** AWS Certified Solutions Architect Associate [AWS] – Docker Foundations Professional [Docker] – Network Automation Professional Certificate [Arista Networks] – Data Engineering Associate [DataCamp] – Become an IT Security Specialist [LinkedIn] – GitHub Career Essentials Professional Certificate [GitHub]

ACTIVITIES AND VOLUNTEERING

Al Riyadi Club Beirut   **October 2023-Present**
Table Tennis Player
- Competitive player in Lebanon's leading sports institution.