

Mahmoud Abdelazim

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Software Engineer

Education

Cairo University

Bachelor of Science in Computer Science (GPA: 3.64 / 4.00) - Excellent with honors

Sep 2018 - Aug 2022

Cairo, Egypt

Experience

Siemens

Jun 2024 – Present

Software Development Engineer

Cairo, Egypt

- Contributed as a **full-stack** engineer to Asset Essentials SaaS, serving **10,000+ client organizations** across **5+ countries**, supporting mission critical asset management workflows.
- Pioneered "**AI-in-the-driver's-seat**" workflows using **Claude Code** and **GitHub CoPilot** to accelerate the full SDLC, including feature implementation, bug resolution, and automated code reviews for the Asset Essentials SaaS.
- Built and deployed **5+ OpenShift services** on Platform, leveraging Helm and ArgoCD for GitOps delivery.
- Contributed to a scalable data import service leveraging **Temporal** workflows to orchestrate and reliably process long-running data import operations.
- Contributed to two **AWS**-integrated services: a Documents Service leveraging **Amazon S3** for document storage and upload workflows, and an Email Notification Service leveraging **Amazon SES** for reliable email delivery.
- Modernized legacy monolith to **gRPC** and **REST microservices**, improving deployment frequency by **3x**.
- Developed a **gRPC** reporting microservice with Power BI, improving report **load performance by 70%**.
- Leveraged **LLM-based AI agents** to refactor legacy codebases, improving maintainability and performance.
- Implemented reusable **front-end** components using Vue.js for the "Brightly Components" library.
- Achieved **80%+ test coverage** alongside API testing with Reqnroll and E2E Cypress testing.
- Delivered **10+ sprint showcase demos** to leadership and engineering teams, improving cross-team visibility and alignment on roadmap progress.
- Facilitated **Agile** ceremonies as a rotational Scrum Master to ensure on-time sprint delivery.

IBM

Jun 2022 – Nov 2022

Software Developer Intern

Cairo, Egypt

- Contributed as a Business Process Management (**BPM**) Developer to a governmental project for the Administrative Prosecution in Egypt, utilizing BPM Cloud Pak, JavaScript, and IBM DB2 to streamline operations.
- Participated as a **back-end developer** during IBM's summer training program, working on the **IBM Intelligent City** project, an initiative focused on creating smart city solutions, leveraging Node.js for backend functionality.

Microsoft

Jul 2021 – Sep 2021

Software Engineer Intern

Cairo, Egypt

- Built a document text-classification model using **PyTorch**, comparing custom models vs **fine-tuned BERT and XLNet**, achieving **92% accuracy** over the provided labeled dataset.
- Deployed the model via a **Flask** web application for internal model evaluation and demos.

Technical Skills

AI & Productivity: Claude Code, GitHub CoPilot, Agentic Development, Prompt Engineering

Programming Languages: C#, Java, Go, C++, JavaScript, Python, SQL

Frameworks / Libraries: ASP.NET, Spring Boot, Node.js, Express.js, Vue.js, React.js, Next.js

Cloud / DevOps: Kubernetes (OpenShift), Docker, AWS, Git, ArgoCD, Tekton, Helm, Datadog, Grafana

Testing: XUnit, JUnit, SpecFlow, Reqnroll, Moq, Jest, Cypress

Languages

Arabic: Native

English: Fluent (90/90 (C2) in all skills in Pearson Test of English)

French: Beginner

Honors and Activites

Competitive Programming: Ranked Expert on CodeForces, ranked 6th out of 230+ teams in ECPC 2022 qualifications

GDSC Cairo University: Founding member and Social Media Head; led a 5-member committee.