Karim Mohamed

software Developer

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SUMMARY

Senior computer engineering student with a passion for innovative technology solutions and a strong foundation in computer science principles.My passion for software engineering ignited at a young age, driven by my fascination with technology and the art of creation.Proven ability to apply theoretical knowledge to real-world engineering challenges.Strong problem-solving and analytical skills, with a meticulous attention to detail

EDUCATION

Arab Academy for Science, Technology and Maritime Transport   Alexandria, EG
Bachelor of Computer Engineering   *Sept 2020 – Jun, 2025*
GPA:3.76

EXPERIENCE

Research Assistant   Sept.2024 – Present
Arab Academy for Science and Technology   *Onsite, AAST*
- Contributed to pioneering research on AI and human text differentiation, leveraging cutting edge NLP techniques.
- Enhanced expertise in transformer models and demonstrated the crucial role of attention mechanisms in text classification tasks.
- Fine tuned BERT models using large datasets, optimizing model accuracy and showcasing advanced machine learning proficiency.
- Developed and implemented data-driven improvements to enhance model performance and boost AI detection precision.

IEEE   Aug.2023 – Dec.2023
Backend Developer
- Built a social media mimic and an e-commerce platform (similar to Amazon) using Node.js as part of a 4-person team
- Supported team lead in organizing events and facilitated learning sessions for new members on Node.js basics.

Backend Internship   Nov.2022 – Dec.2022
Backend Development   *remote, Brainnest*
- Collaborated with a senior backend developer to conduct a comprehensive review of my coding skills, aligning my expertise with the latest industry standards and ensuring proficiency in best practices.
- Developed a food ordering system project, which enhanced my understanding of backend architecture and reinforced best practices in coding, resulting in a robust and scalable application.

PROJECTS

Food-Ordering-System | *Nodejs(Express), NOSQL(Mongo), JWT, Stripe, Cloudinary*
- Built a food ordering system with Node.js (Express) and MongoDB, integrating Stripe for payments.
- Used JWT for authentication and Cloudinary for image hosting.

Amazon-Clone | *Nodejs(Express), PostgreSQL, Prisma, JWT*
- Developed an Amazon clone using Node.js (Express) and PostgreSQL with Prisma ORM for database interaction
- Implemented JWT for secure user authentication, ensuring robust access control.
- Designed complex relationships between products, users, and orders, establishing different access authorization levels for admins and customers to manage permissions effectively.

Mern-AI-Generator | *Nodejs(Express), NOSQL(Mongo), JWT*
- Developed a text generation app using the OpenAI API and MongoDB for data management
- Integrated JWT for authentication and Stripe for a subscription system, enabling secure payments

TECHNICAL SKILLS

Skills:Nodejs(Express), JavaScript, TypeScript, SQL, PostgreSQL, NOSQL(MONGO), Prisma, Stripe, Cloudinary, RESTful API, Auth0, HTML, CSS, Version Control (Git), MVC, AI Training and Development, NLP, Python