Abdelrahman Bayoumi

Full Stack Engineer

📞 +201020781942 🔀 abdelrahmanbayoumi1@gmail.com 🗓 abdelrahman-bayoumi 🗘 AbdelrahmanBayoumi

Work Experience

ULTATEL Mar 2024 - Present

Full Stack Engineer

- Integrated Jitsi Meet to build a direct meeting module with custom controls, enhancing video conferencing and user experience. Also developed a NestJS app to manage Socket.io events, streamlining real-time communication and meeting setup.
- Built an Identity API using NestJS to centralize authentication and authorization across all company applications, enabling secure and unified user management.
- Engineered unified communication platforms, integrating voice, text, and video across devices using Angular, Electron, Ionic, and Capacitor for cross-platform functionality.
- Built the Ultatel Hub Assistant Chrome extension enabling instant click-to-call and SMS from any phone number on the web, fully integrated with Ultatel Hub.

Modeso Aug 2023 - Feb 2024

Full Stack Engineer

- Involved in full-stack development for "Twint+ Super Deals" app, utilizing Node.js, Express.js, MongoDB, Angular, and SCSS to enhance app functionality and precision.
- Contributed to a major project revamp by modernizing the Angular frontend and Node is backend, Dockerizing microservices, and improving system performance, deployment efficiency, and security.
- Led front-end redesign in Angular 16 migration, enhancing functionality and user experience.
- Introduced new admin dashboard and shopping interface features, enhancing user engagement and efficiency.
- Automated CI/CD with Jenkins & Docker, reducing deployment time & minimizing production issues.

Code Clinic May 2019 - Aug 2023

Software Engineer (Founding Team)

- Implemented and maintained 4 (Desktop & Web) apps using technologies such as JavaFX, Node.js, Express.js, PostgreSQL, CSS, Scene Builder, SQLite.
- Led team efforts in developing multiple apps, with a primary emphasis on two significant projects: Restaurant & PlayStation Cafés management system and Sunglasses Shop management system.

Zayir Alkhayr Nov 2021 - Dec 2022

Desktop Application Developer (JavaFX)

- Engineered a desktop application with functionalities for employee management, payroll, inventory, and donation management and distribution system to support underprivileged families and individuals.
- Designed over 130 (pages and popups) and integrated them with the Server API to make all CRUD operations.
- Optimized the application's performance and scalability, enabling it to handle large datasets and complex workflows without compromising on speed or reliability.
- Collaborated closely with stakeholders to gather requirements, ensuring the application met the specific needs of the organization and improved overall operational efficiency.
- Utilized JavaFX to develop an intuitive, user-friendly interface, adhering to best practices in software design.

Education

Front-End Summer Trainee at Information Technology Institute (ITI)

Aug 2020 - Sep 2020

Gained hands-on experience in UI/UX design and front-end development, using tools like Photoshop, Illustrator, Adobe XD, and developing responsive designs with HTML, CSS, and JavaScript. Applied UX principles to real-world projects.

Bachelor of Science in Computer Science

Sep 2017 - Jul 2021

Faculty of Science, Alexandria University. Grade: Excellent with honors 3.72 CGPA.

Projects

 Twint+ Super Deals: Modernized Angular frontend and Node.js backend, Dockerized microservices, and revamped admin dashboard and shop features to boost performance, UX, and deployment speed. Technologies: NodeJS, Angular, MongoDB, Docker, RabbitMQ, Google Cloud Platform. Website

• Age Tracker: Track birthdays and ages in Hijri/Gregorian calendars for you and loved ones efficiently. Technologies: Node.is (NestJS), PostgreSQL, Angular, SCSS, PWA.

Website

Arabic Services: Implemented an NPM package for Arabic text processing with over 1.7k downloads, And built an accompanying interactive website for showcasing package capabilities and features. Technologies: TypeScript, JavaScript, HTML, CSS. Website

- Shop Follow-up: Created a site for shop owners to track transactions, income, and get payment alerts remotely.
 Technologies: Node.js (Express.js), PostgreSQL.
 Website
- Bayoumi Gelato Website: Developed a responsive, SEO-optimized website for Bayoumi Gelato featuring interactive Google Maps and a user-friendly interface. Ensured brand-aligned aesthetics and smooth navigation.
 Technologies: Angular, TypeScript, SCSS, Google Maps Embed API

 Website
- PlayStation Café & Restaurant System: Crafted a cloud-based and offline system for 80+ users, managing game rooms and dining areas, handling billing, playtime tracking, archiving, and essential management tasks.
 <u>Technologies</u>: JavaFX, SQLite, REST APIs, Node.js (Express.jCSS, JS.s), PostgreSQL, HTML,
 <u>Website</u>

Skills

- Languages: Java, JavaScript, TypeScript.
- Backend Technologies: Node.js, Express.js, NestJS, RESTful APIs.
- Frontend Technologies: Angular, NGRX, Ionic, Capacitor, Electron, HTML, CSS, SCSS, PWA, JavaFX.
- Databases: Relational (MySQL, SQLite, PostgreSQL) NoSQL (MongoDB).
- **DevOps and CI/CD Tools:** Docker, Jenkins, RabbitMQ, Git, GitHub, CI/CD Pipelines.
- Project Management & Collaboration: JIRA, Agile Methodologies, Figma.

Volunteering Activities

- Technical Instructor, <u>HackerRank Club</u>: Volunteered as an instructor, mentoring participants in Problem Solving and Java Basics to OOP.
- ECPC (2020) Qualifications (ICPCID): Competed in the ECPC (Egyptian Collegiate Programming Contest)
 Qualifications Round.
- Co-Founder, <u>Alex-Sci ICPC Community</u>: Established a community focused on preparing students for the International Collegiate Programming Contest (ICPC).
- <u>Certification</u> in Server-side Development with Node.js, Express, and MongoDB (Coursera The Hong Kong University of Science and Technology)