

Abdelrahman Bayoumi

Full Stack Engineer

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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.js 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.js (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.
Technologies: JavaFX, SQLite, REST APIs, Node.js (Express.jCSS, JS.s), PostgreSQL, HTML, [Website](#)
- **Azkar-App:** Developed a desktop application for Muslim prayer times, Morning and Night Azkar, with reminders and notifications or Azkar. Also Designed its landing page, featuring app details and download links. With 12 releases, the app has been downloaded over 4.5K times, showing user interest.
Technologies: JavaFX, FXML, SQLite, Flyway, HTML, CSS, JavaScript. [Website](#)

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, [HackerRank Club](#):** 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, [Alex-Sci ICPC Community](#):** Established a community focused on preparing students for the International Collegiate Programming Contest (ICPC).
- **[Certification](#)** in Server-side Development with Node.js, Express, and MongoDB (Coursera – The Hong Kong University of Science and Technology)