# Abdelrazek Ali Ahmed

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## Summary

Software Engineer with over 3 years of experience designing, developing, and maintaining robust software solutions. Skilled in full-stack web development including backend and frontend technologies, with the ability to quickly learn and adapt to new technologies and domains.

## Experience

**Egyptian Research and Development Center · Cairo, Egypt · On-Site**        **Oct 2022 – Present**
**Software Engineer**
- Developed a web solution for managing staff and stores, enabling efficient management of multiple complex business functions.
- Enhanced an AI computer vision model, increasing detection performance and accuracy by 5x.
- Built a CI/CD pipeline with GitHub Actions and Docker for automated testing and deployment.

**BrandArtist · Bavaria, Germany · Remote**        **Aug 2021 – Oct 2022**
**Full Stack Developer - MERN**
- Collaborated effectively with cross-functional teams including UI/UX designers, QA testers, and product managers to design, build, deploy, test, and release high-quality software solutions.
- Improved the performance of an existing web application by 30% through optimization of code, database, UI, and implementation of caching strategies.
- Utilized agile methodology to prioritize tasks, track progress, and deliver features on time.

**Banque Misr · Cairo, Egypt · Internship**        **Jun 2021 – Jul 2021**
- Implemented a new feature into a financial solution under the guidance of senior developers.
- Participated in daily stand-up and sprint planning meetings to align tasks with project goals.

## Education

**Bachelor's Degree in Computer Science, Zagazig University**        **2018 – 2022**

Grade: Excellent with honors and 6th rank.
Graduation Project: IoT Smart City, ranked 1st in the Zagazig University GP Conference.

## Skills

**Programming Languages:** JavaScript, TypeScript, C++, Python

**Back-End Development:** Node.js, Express.js, REST APIs, Microservices, Auth (JWT, OAuth)

**Front-End Development:** React.js, Redux, HTML, CSS, SASS, Tailwind, Bootstrap

**Databases:** SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis), ODM (Mongoose)

**DevOps and Cloud:** AWS (EC2, S3), MS Azure (VMs, App Service, Blob Storage), Docker, CI/CD

**Computer Vision:** PyTorch, OpenCV, CUDA, YOLO

**Microcontrollers:** Arduino, Raspberry Pi, ESP32, Jetson Nano

**Development Tools:** Testing (Postman, Jest), Version Control (Git, GitHub), OS (Linux, Mac, Win)

**Software Engineering Principles:** OOP, Data Structures and Algorithms, Design Patterns, Clean Code, SDLC, SOLID, ACID

**Soft Skills:** Problem Solving, Self-learning, Time Management, Communication, Teamwork

**Currently Learning:** Nest.js, Next.js, GraphQL, RabbitMQ, Kubernetes

## Projects

**[WyldPay](#) ⧉ | TypeScript, Node.js, React.js, Redux, SASS, AWS**　　　　**Aug 2022 – Present**
QR Food Ordering Solution through web interface
- Built and maintained RESTful APIs for efficient data handling and integration.
- Implemented secure authentication and authorization mechanisms using JWT.
- Integrated Stripe, PayPal, and Apple Pay for secure and flexible payment processing.
- Developed a responsive user and admin interface for a dynamic and engaging experience.
- Implemented additional features such as Discount Coupons, tips, invoices and subscription plans.

**[Kids Social](#) ⧉ | Node.js, Express.js React.js, MongoDB, Heroku**　　**May 2022 – Aug 2022**
Social media platform for kids
- Designed database schema and converted it into MongoDB collections and documents.
- Developed features like posts, comments, reactions, friend requests and invitations via email.
- Integrated WebSocket and WebRTC for real-time chat, video, voice calls and voice messages.

**[IoT Smart City](#) ⧉ | Node.js, MongoDB, Mongoose, MS Azure**　　　　**Oct 2021 – May 2022**
Graduation project that integrates smart home and parking functionalities using IoT technologies
- Led a team of developers, breaking down tasks and roles using Agile methodology.
- Built REST APIs to integrate IoT devices with a mobile app.
- Configured MS Azure cloud services including creating VMs, and managing DNS settings.
- Improved system reliability and performance via load balancing and availability configurations.
- Enhanced security against common attacks such as NoSQL injection, CSRF, and DoS attacks.

**[library API](#) ⧉ | Node.js, PostgreSQL, Swagger, Heroku**　　　　**Sep 2021 – Oct 2022**
REST API for managing library with documentation

**[Blog](#) ⧉ | Node.js, React.js, bootstrap, MongoDB, MS Azure**　　　　**Aug 2021 – Sep 2021**
Blog platform for content creation, management, and customization

**[Airport Registration](#) ⧉ | Node.js, React.js, MySQL**　　　　**Jun 2021 – Jul 2021**
Simple SPA for airport registration to verify DB replication in MS Azure

**[Arabic Marketplace Front-end](#) ⧉ | React.js, CSS**　　　　**May 2021 – Jun 2021**
Marketplace featuring user-friendly product listings and admins dashboard

**[Online Chat](#) ⧉ | Node.js, EJS, WebSocket, WebRTC, Google OAuth**　　**Mar 2021 – May 2021**
Private and Group Chats, Video Calls, Friend Requests, Online friends, and Realtime Notifications

**[E-Store](#) ⧉ | Node.js, EJS, SSR, PayPal SDK, MongoDB, Heroku**　　　**Oct 2021 – Mar 2021**
E-commerce store website
- Product Search, Cart Management, and Order Confirmation.
- Integrated PayPal third-party API for secure payment processing.
- Implemented an admin dashboard to add and manage products and orders.
- Featured order tracking for users and provides logging capabilities for admins.

**[Native android apps](#) ⧉ | Java, Android Studio, Android SDK, Gradle**　　**Nov 2020 – Jan 2021**
Contacts management and auth forms apps

**[Leon](#) ⧉ · [Sky](#) ⧉ · [Elite](#) ⧉ · [Tanatos](#) ⧉ · [Bootcamp](#) ⧉**　　　**Sep 2020 – Nov 2020**
Responsive landing pages built using HTML5 and CSS3 to enhance web design skills