

# Ahmed Alsabbahy

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## SUMMARY

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Experienced senior software engineer with 6+ years in full-stack development. Demonstrated expertise in designing, implementing, and maintaining scalable software solutions across multiple programming languages. Committed to delivering high-quality, efficient code and adept at problem-solving. Effective collaborator in cross-functional teams, dedicated to ongoing skill enhancement and staying abreast of industry trends to drive innovation.

## SKILLS

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Development Skills: Python, Nodejs, Reactjs, Django, FastAPI, SQLAlchemy, Redux, Restful API, Mongoddb, PostgreSQL, Redis, Kafka, AWS, Docker, Kubernetes, CI/CD, Stripe, Paymob, Paypal, Twilio, Heroku, Microservice, Serverless, GraphQL Apollo

Interpersonal Skills: Strategic Planning, Management, Leadership, Teamwork, Team Management, Problem Solving, Mentoring, Coaching

Languages: Fluent English, Native Arabic

## EXPERIENCE

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### Senior Backend Engineer

LXT

November 2023 - Present, Egypt

- Leading the design, development, and testing of new products while ensuring the stability of existing ones.
- Keeping updated with current industry trends in software and cloud solutions.
- Ensuring top-notch code quality and design that meets business needs, emphasizing scalability and fault tolerance.
- Mentoring and supporting junior team members to cultivate a culture of technical excellence and minimize technical debt.
- Assisting in technical estimations and effort sizing, establishing and enforcing code guidelines, and conducting thorough PR reviews.
- Implementing comprehensive unit testing and integration testing strategies.
- Engaging directly with the Product team to understand requirements and offering technical feedback when necessary.

### Senior Fullstack Developer

Sword Software Solutions Egypt

July 2023 - October 2023, Egypt

- Participating in business hand-off meetings with stakeholders and project kick-off meetings.
- Participating in architectural, design and product discussions, API technical design.
- Designing and creating RESTful APIs for internal and partner consumption.
- Developing and implementing ReactJS user interface components and refactoring legacy code built with outdated React versions.
- Debug, Test, Deploy, Maintain the application and build reusable modules for future use.
- Employing development best practices to maintain code standardization and ensure scalability in web application.
- Support in current DevOps with logging all server requests over DataDog and backend django application server.

### Backend Engineer

Amjaad Technology

February 2022 - July 2023, New Maadi, Cairo

- Reduced latency by 33% by rewriting critical RESTful services in Node.js, and implementing JWT for more secure access control.
- Refactor of user authentication module to token-based with two factor authentication.
- Maintained the codebase for IOMeter's backend by refactoring the code, optimizing the performance, fixing bugs, and working on new features.
- Applying agile methodologies and principles in software development, resulting in a 20% increase in productivity and in code quality.
- Fully integrated payment services with backend server and as micro-services (Paymob POS, Paymob online payment, Fawry POS, Fawry Online payment).
- Implementing Nestjs framework on top nodejs express.js for micro-services (Payments, Notifications).
- Acting senior backend engineer with mentoring and coaching the junior developers, code reviews, one-to-one monthly meeting with the junior developers. (since February 2023).
- Getting involved with business stakeholders and business hand-off meetings.

### Software Engineer

Symbios Consulting

January 2021 - February 2022, Cairo, Egypt

- Software development as a MERN full stack engineer.
- Online Web development training "backend development" for KAU senior students in collaboration with A.I.S.

- SIDC Invoicing RPA – Robotic process automation for the invoicing workflow.
- Audio Technologies filter model web-service (React + Django, Azure ML).
- Developed various web applications using MERN, and Django stacks, resulting in an increase of 20% in customer engagement and improved user experience. Implemented automated and efficient processes for SIDC invoicing workflow and audio technologies filter model, utilizing Robotic Process Automation, Azure Machine Learning and CI/CD on Heroku.

## Software Engineer

### Override eg

August 2020 - December 2020, Cairo, Egypt

- Developed and engineered multiple REST API backend applications, employing NodeJS/NestJS, MongoDB, and Express frameworks for comprehensive end-user data processing and reporting.
- Contributed to Qatar Hiring Solutions (Q.H.S.).
- Contributed to Fast Delivery (Food delivery app).
- Contributed to W & M (E-commerce shopping and services app).
- Contributed to 49 Riyals (E-commerce app).
- Played a pivotal role in the development of SITAPP, an E-learning app.
- Integrate payment with Paypal in various projects

## Trainee Embedded Software Engineer

### Youxel

January 2016 - June 2016, Egypt

- Research and development: Research and investigate the proper technology to build software system for prototype robot.
- Learn and participate in the software development life cycle.
- ROS: Lead the development and integration of robotics operating system in the prototype.

## PROJECTS

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### VORS - VORS.AI

Freelance • [variationorder.com/](https://variationorder.com/) • August 2023 - July 2024

- Created a frontend dashboard utilizing React framework.
- Implemented backend functionality using NestJS facilitated by "Amplification".
- Collaborate closely with stakeholders to align business objectives with technical specifications.
- Created **VORS.AI**: conversational AI to give information related to Civil Engineering and related variations in scope of construction works.

### iCarica Backend

iCarica • September 2022 - January 2023

- Developed reliable and scalable RESTful microservice APIs and databases according to best practices and security protocol to support the mobile applications.
- EV charging OCPi server implementation, optimizing resources utilization and increasing server performance by 40%. Refactored the OCPi implementation, decreasing response time by 50%, maintaining high service quality and customer experience.

### Operational Excellence Journey

[journey-opex.com/](https://journey-opex.com/) • April 2021 - February 2022

- Developed using the MERN stack with a UI powered by the Material Kit React Pro Template.
- Deployed on AWS infrastructure utilizing EC2, Route 53 for DNS management, Cloudfront CDN for content delivery optimization, and S3 Bucket for static file hosting.
- Leveraged AWS RDS for relational database needs and DynamoDB for NoSQL data storage.
- Implemented Redux Toolkit for efficient application state management.
- Backend APIs engineered with the nestjs framework, utilizing Postgresql as the primary database solution.

### EI-Markeb APIs

December 2020 - December 2021

- Technology Stack: Constructed using Node.js and NestJS for enhanced scalability and modularity.
- RESTful APIs: Facilitates seamless boat reservations and sea equipment e-commerce through industry-standard RESTful APIs.
- Reservation System: Empowers users to navigate, inspect details, and execute boat reservations seamlessly.
- E-commerce Functionality: Incorporates sea equipment e-commerce, featuring product listing and order processing.
- Authentication and Authorization: Implements secure JWT-based authentication to control access to sensitive functionalities.
- Data Security: Enforces robust data validation and sanitization to thwart common security vulnerabilities.
- Scalability: Engineered to efficiently manage a substantial volume of concurrent users and transactions.
- Documentation: Comprehensively documents APIs, providing detailed endpoint information for seamless integration.
- CI/CD and Monitoring: Deploys CI/CD pipelines for automation and integrates monitoring tools for performance metrics and issue identification.

## **Students Affair System Big Data Analysis and Business Intelligence**

June 2017 - June 2018

- Constructed data warehouses with various tools, such as Oracle, SQL Server and others to develop the predictive models by supporting the data mining process, realizing business application scenarios and generated reports and dashboards.

## **EDUCATION**

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### **Advanced Cloud Developer Nanodegree, Computer Software Engineering**

Udacity • Online • December 2022

### **100 Days of Code: The Complete Python Pro Bootcamp for 2023**

Udemy • Udemy • 2022

### **Complete React Developer in 2021 (w/ Redux, Hooks, GraphQL), Computer Programming, Specific Applications**

Zero To Mastery Academy • 2021

### **Bachelor of Electrical & Electronics Engineering in Computer Engineering**

Modern Academy Maadi • Cairo, Egypt • 2018

## **CERTIFICATIONS**

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### **ALX Ai Career Essentials**

ALX Africa • 2024

### **Nano Tips to Stop Overthinking with Shadé Zahrai**

LinkedIn • 2023

### **Advanced Cloud Developer Nanodegree - Udacity**

Udacity • 2022

### **Building RESTful APIs with Node.js and Express**

LinkedIn • 2022

### **Node.js: Design Patterns**

LinkedIn • 2022