

Karl Nassar

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<https://karlnassar.vercel.app>

Beirut, Lebanon

Skills

Languages: TypeScript, C#, Python, Java, SQL

Frameworks: Node.js, .NET, Next.js, React.js, FastAPI, Docker

Architectures: Microservices, Event-Driven Architecture, Monoliths

Cloud: AWS, Azure Pipelines & Releases

Skills: TDD, BDD, Load Balancers, Message Brokers, CI, CD, Design Patterns, Systems Design

Soft: Communication, Emotional Intelligence, Open-Mindedness

Experience

Backend Engineer - Database Administrator

Silverhuset · Stockholm

09/2022 – Present

- Migrated a monolithic e-commerce backend to microservices using C# and .NET
- Integrated **Stripe** payments using webhooks helping the business scale and generate more than **\$50k+** in sales
- Administered an SQL Server Database with over **2000** tables, **4000** stored procedures, and **400** UDF
- Generate automated **reports** (CSV, Excel, etc...) for the marketing team providing valuable insights and analytics that contributed to generating more leads
- **Logged** and **monitored** the activity of more than **26 thousands** active users using:
 - Elastic Search and Kibana for logging
 - Prometheus and Grafana for monitoring and **alert managing**
- Prioritized unit testing with xUnit leading to a code coverage of more than **70%** of services
- Automated the deployment to servers by creating Azure Pipelines resulting in decreasing time and cost of development by **20%**

Software Engineer

Parametriks {Insurance} · Paris, France

02/2022 – Present

- Designed and implemented the microservice architecture of the backend from the ground up with scalability in mind
- Optimized the backend by using Load Balancers (NGinx), Data Replication and Indexing of the database in order to achieve **1k+** requests per minute
- Increased servers' performance and speed by more than **70%** using Redis caching system
- Communicated asynchronously between services using message brokers, mainly RabbitMQ
- Unit Tested the backend using PyTest and the Angular Frontend using Karma and Jasmine
- Containerized microservices using Docker, docker-compose and Tilt (Kubernetes)

Full Stack Developer

Vittascience · Paris, France

06/2021 – 01/2022

Vittascience designs solutions for primary and secondary school teachers to help students become familiar with STEM |

<https://en.vittascience.com>

- Worked alongside clients that represent the biggest tech companies with over **40,000** employees and **\$10B+** in revenue. Texas Instruments and STMicroelectronics to name a few

- Provided tools and interfaces for more than **15,000** students and **5,000** teachers to aid kids and teenagers learn more about coding and STEM
- Achieved 1 million page views by November of 2021 which boosted yearly revenue by **\$300k+**
- Handled French/English/Arabic translation using i18n to increase website traffic by **30%**

Backend Developer Intern

Above the Fold • Beirut, Lebanon

03/2021 - 05/2021

<https://abovethefold.tech>

- Contacted clients to produce high-quality web applications
- Deployed files using FileZilla (SFTP) and connected with the main server using SSH
- Learned new libraries such as Zod and Web Sockets

Projects

Amazon Clone

- <https://amazon-clone-nextjs-karlgassan.vercel.app>
- Stack: Next, Tailwind, Redux and Stripe
- API: fakestoreapi.com

Covid-19 Tracker

- <https://covid-19-tracker-1861b.web.app>
- Frontend: React, CSS
- API: disease.sh

The Mentor

- Online tutoring platform
- Handled **20+ active** students that wanted to further their understanding in coding and computer science

Education

Computer Engineering B.S

Lebanese University, Faculty of Information • Roumieh, Mount Lebanon

06/2021

- Clubs: Mechatronics, IEEE (registered as an international member)

Languages

English, French, Arabic