

# Karl Nassar

kgnassar01@gmail.com

<https://www.linkedin.com/in/karl-nassar> | <https://github.com/KarlGNassar> | +961 70 888 513 |

<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 Computing:** AWS, Azure Pipelines & Releases

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

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## Experience

### Backend Engineer - Database Administrator

Silverhuset · Stockholm, Sweden (Remote)

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 in the first month
- 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 (Remote)

02/2022 - 05/2023

- Led the development of a real-time monitoring and prediction dashboard using Typescript, React, AWS, and Node.js to improve decision-making for flood, fire, and plumbing claims within the insurance industry
- Leveraged client data to build highly accurate predictive models, enabling data-driven decision-making and delivering substantial improvements
- Played a key role in implementing data-driven solutions and advanced predictive analytics, resulting in significant positive outcomes
- Optimized the backend by using Load Balancers (NGinx), Data Replication, and Indexing of the database to achieve **5k+** requests per minute
- Increased servers' performance and speed by more than **70%** using Redis caching system
- Containerized microservices using Docker, docker-compose, and Tilt (Kubernetes)

### Full Stack Developer

Vittascience · Paris, France (Remote)

06/2021 - 01/2022

- Worked closely with clients representing big tech companies with over **40,000** employees and **\$10B+** in revenue including Texas Instruments and STMicroelectronics
- 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

- 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
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## Freelance

Simly (Dubai, UAE)

- Attained, as a team, **top 3** ranking in the Middle East App Store, showcasing exceptional app performance and user engagement
- Executed the migration from Firebase Cloud Functions to Node.js and MongoDB server, achieving a reduction in OpEx by over 40%
- Conducted thorough reviews of **Pull Requests** (PRs) and **Issues**, ensuring adherence to quality standards and best practices
- Enhanced Admin and **B2B** portal/dashboard resulting in improved efficiency and user experience

Blinkcard (Dubai, UAE)

- Pioneered a comprehensive NodeJS backend solution utilizing **NestJS** and PostgreSQL, delivering robust functionality from inception to deployment
- Integrated third-party service (NymCard) for virtual credit card creation
- Deployed the application to **AWS EC2** and implemented file upload functionality using **S3** Bucket, ensuring robust and scalable cloud-based operations

Truck Tracking System, NAPCO (Saudi Arabia)

- Debugged and fixed React CMS dashboard
  - Fixed various bugs in the .NET 6 backend
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## Certificates

AWS Certified Cloud Practitioner – Expires June 2026

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## Education

### Computer Engineering B.S

Lebanese University, Faculty of Engineering • Roumieh, Mount Lebanon

06/2021

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

English, French, Arabic