Senior Software Engineer

System Architecture / Data Infrastructure / Cloud Solutions

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**Summary**

* Senior Software Engineer with **10+ years of experience** designing scalable **backend systems, data infrastructure**, and **cloud-native solutions** in **global tech environments**.
* Expert in **AWS architecture**, building cost-efficient, high-performance **Data Lakes, ETL pipelines**, and **real-time processing systems.**
* Hands-on with **Node.js, TypeScript, Python**, and **Java**, delivering robust **microservices** and **serverless applications** using **NestJS, Lambda,** and **Docker.**
* Proven track record in reducing infrastructure costs by ~30% through **performance tuning** and **architectural redesign.**
* Strong background in **system modernization**, **cloud security**, and **DevOps practices**, including **CI/CD, Kubernetes,** and **Airflow**.
* Skilled in working **cross-functionally** with **C-level executives** and product teams to align engineering initiatives with business goals.
* Experienced with a wide range of data technologies: **Elasticsearch, Redis, Redshift, MongoDB**, **Postgres, S3, Athena**, and more.
* **B.Sc. in Computer Science** with Honors

**Professional Experience**

2022 - 2025 **Senior Backend Developer**, **GeoEdge**

* Designed and secured buy-in for a modular **Data Lake architecture** on **AWS** using **S3, Lambda,** and **Glue**, presenting the technical design to the **CEO** and **Product Management,** and achieving significant **Elasticsearch** cost reductions
* Developed **NestJS microservices** and Serverless **Lambda functions** using **NodeJS** and **TypeScript**, with automated Dockerization and **CI/CD integration** via **NX monorepo**, enabling rapid deployment of data transformations and **REST APIs**
* **Designed** and **built** a real-time aggregation system using **Redis** and **AWS Lambdas** as a cost-effective alternative to time-series databases, providing configurable alerts and observability while working within budget constraints
* Optimized ad **categorization algorithms** using **Set Cover logic** with **NodeJS** for real-time ad blocking, achieving **~30% cost reduction** while maintaining performance standards
* **Automated Jenkins Docker builds** with **Groovy** for **NX monorepo** deployments, streamlining **Kubernetes** and **Serverless** deployment workflows
* **Participated in C-level executive meetings** and **collaborated with Product Managers** to align technical initiatives with business objectives

2019 - 2022 **Senior Software Engineer**, **Cappsool Technologies**

* **Led system architecture modernization**, profiling, and documenting the entire **AWS infrastructure**, operational systems, and network topology to create a comprehensive system understanding
* **Redesigned** and **replaced** the legacy job management system by **migrating** from a basic **NodeJS** interval-based scheduler to **Apache Airflow**, enabling task dependencies, parallelism, observability, and visualization while maintaining the existing NodeJS codebase through command-line operators
* **Architected** and **implemented** scalable **data infrastructure** using **MongoDB**, **AWS Redshift**, **S3**, and **DynamoDB**, designing and building **ETL** pipelines for B2B marketing data processing
* Established a comprehensive **AWS cloud topology,** including **CloudFront CDN**, **Application Load Balancers (ALB)**, **SSL/TLS** certificates (ACM), and security configurations for high-traffic comparison websites
* **Built Data Lake architecture** using **AWS Athena** with **Glue catalog** over **S3 tables**, optimizing data accessibility and query performance for analytics workflows
* **Managed cybersecurity incident response** for top-10 style comparison websites, collaborating with security teams to analyze and mitigate attacks while maintaining system availability
* **Led code refactoring initiatives** and **knowledge sharing** across the development team, establishing documentation standards, and training junior developers on system architecture

2013 - 2019 **Senior Backend Developer**, **Comm-IT**

* **Developed backend solutions** for B2B strategic clients across diverse industries (advertising, insurance, cybersecurity, military)
* Planned and delivered custom **software architectures** aligned with client requirements
* Built **enterprise applications** using **Java ecosystem,** including **Spring/Spring Boot**, **JBoss/Wildfly**, **Hibernate**, **Maven**, **Jetty**, and **Tomcat**, with additional development in **Python**

2010 - 2013 **Java Developer**, **Amdocs**

**Tools & Technologies**

**Languages:** Node.js, Python, TypeScript, Java | OS: Windows, Linux, Mac

**Frameworks & APIs:** Airflow, Mongoose, Spring, Docker, Kubernetes, Serverless, NestJS

**Cloud & Servers:** AWS, Azure, JBoss/Wildfly, Tomcat, Jetty, Undertow, vCloud

**DB:** ElasticSearch, MySQL, MS-SQL, MongoDB, Oracle SQL, GraphDB/Neo4J, Redshift, S3, PostgreSQL, Athena

**Software Tools:** Jenkins, Git, Maven, AMQ, BitBucket | Methodologies: Agile, Scrum, Flexible R&D

**Education**

**B.Sc. in Computer Science**, Graduated with Honors, College of Management Academic Studies.

**Military Service**

Recruits Commander, **Combat Engineering** (with security clearance)

**Languages**

**Hebrew** – Native | **English** – Fluent