

Sahar Barak

Software Engineer

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Skills

- **Programming Languages:** Kotlin, Java, JavaScript, TypeScript.
- **Frameworks & Libraries:** Spring, Spring Boot, Node.js, NestJS, Express, Passport.js.
- **Frontend:** HTML5, CSS3, React, Three.js, Next.js.
- **Cloud & Deployment:** AWS (EC2, S3, RDS, Lambda), GCP, Heroku, Azure.
- **DevOps & Containerization:** Docker, Kubernetes, Git, GitLab CI, Drone, ArgoCD, DockerHub.
- **Databases & Messaging:** MongoDB, MySQL, Elasticsearch, Kafka, SQS, RabbitMQ, Redis, Flyway.
- **Blockchain & Peer-to-peer:** Tendermint, IPFS, IOTA.
- **Design Tools:** Figma, Procreate, Miro, Mermaid.
- **AI/ML:** N8n, Huggingface, Base44, Lovable, Replit, V0, Stitch, Vertex, OpenAI, Runway, Midjourney.

Experience

Sync & ThePeaceboard | Israel

Creator | Mar' 2024 - Present

<https://www.thepeaceboard.com> | <https://github.com/ThePeaceBoard>

- Founded **Sync**, a civic-tech movement and application empowering civilian majorities to generate **civilian-driven narratives** around government decisions — creating an ultimatum of legitimacy: governments must follow the consensus (as democratic) or risk exposure as illegitimate.
- Created **ThePeaceBoard**, a digital map board where civilian majorities are united, visualized and creating a civilian driven narrative for peace, when achieving majority they create an ultimatum of legitimacy for governments.
- Selected into the **OGS (Our Generation Speaks) Startup Incubator**, advancing *Sync* and *ThePeaceBoard* in an international ecosystem fostering Israeli–Palestinian collaboration and high-impact ventures for peace.
- Led **end-to-end full-stack engineering** across the application: front-end (React/Next.js), back-end (Node.js/TypeScript), infrastructure (Cloudflare, Netlify, CI/CD pipelines), authentication, DNS/email systems, and secure deployments.
- Integrated **blockchain and decentralized technologies**, including **IOTA** (for scalable feeless transactions), **IPFS** (for distributed storage), and blockchain-based consensus models to guarantee transparency, auditability, and resilience of the system.

Sunbit Payment Software | Binyamina, Israel

Backend Engineer | Dec' 2021 - July 2023

- Engineered cloud-native, scalable backend systems, databases, and microservices using Java, Kotlin, Nest.js, Node.js, Spring Boot, Hibernate and Ktor, emphasizing composability, reusability, design patterns, and event-driven architecture.
- Developed and maintained RESTful APIs and gRPC, deploying applications across different environments (local, staging, integration, production) on AWS kubernetes clusters(EKS).
- Utilized Docker and Kubernetes for containerization, managing codebase with Git, docker images with DockerHub and CI/CD pipelines with Drone, Github actions and ArgoCD.
- Conducted design and code reviews.
- Integrated Elasticsearch for quick data retrieval, cross checking customer data as a fraud prevention mechanism, stopping fraudulent loan applications in real-time.
- Automated unit and integration testing using Mockito, JUnit 5, and JUnit 4; maintained end-to-end testing environments, and introduced contract testing with Pact.
- Participated in designing a scalable legacy code replacement, dismantling monolithic systems.
- Managed and optimized databases, including MongoDB, MySQL, and Snowflake, ensuring efficient data storage,

retrieval, and processing; Utilized Flyway for database migrations.

ZIM Integrated Shipping Services | Haifa, Israel

Full Stack Engineer | June 2020 - Dec' 2021

- Led the migration of 1200+ sites and 120+ business applications from on-premise servers to Azure.
- Developed technologically up to date knowledge centers, team sites and business applications using .NET, React, SPFX and Sharepoint.
- Refactored out of date business applications into cloud adaptive applications
- Achieved a 30% increase in team productivity by automating tasks and streamlining workflows wrapping the migration project 3 months ahead of schedule

Cybersecurity Education Center | Sde Eliyahu, Israel

Computer Science Mentor | Nov' 2019 - June 2020

- Taught a class of 20 middle schoolers on cybersecurity and computer science concepts, including Object-Oriented Programming (OOP), functional programming, cybersecurity IoT, and networks.

Military Experience

Israel Defense Forces | Brigade 460, Shizafon

Brigade Systems Administrator & Global Knowledge Officer | Aug' 2016 - Mar' 2019

- Supervised a help desk team supporting over 6,000 devices, 13 soldiers under command.
- Led the implementation and technical operations for Elbit's Ma'anak battle management simulators.
- instructed CCNA certification courses.
- Managed the base network and infrastructure, integrating high-frequency broadband devices, GPS, encryption devices, etc.
- Transitioned to COGAT, BHD1, Arabic courses, pivoting to a new operational role.

Volunteering

Jewish Agency Summer Camp

Los Angeles, California | May 2019 - August 2019

- Science and technology focused sleepover summer camp at California Lutheran University @ Thousand Oaks, CA
- Taught several classes on the basics of Arduino, Introduction to Python, and Introduction to Electrodynamics (select topics from Maxwell's book).

Pre-Military Academy Ha'arava

Hatzeva, Israel | July 2015 - May 2016

Education

Ort Yigal Alon | Yokneam, Israel

Computer Science and Physics