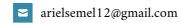
# **Ariel Semel**





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https://github.com/ArielSemel

# **SUMMARY**

Computer Science graduate with experience building scalable, secure full-stack applications. Developed real-time football tracking and auction platforms using ReactJS, Spring Boot, and MySQL. Proficient in testing and automation with JUnit and Selenium, ensuring high-quality deliverables. Optimized AWS deployments, reducing costs by 20% with auto-scaling and load balancing. Skilled in building RESTful APIs and leveraging cloud technologies. Eager to apply my skills to drive impactful, high-performance solutions.

### **EDUCATION**

2020 - 2023	B.Sc in Computer Science Academic College of Ashkelon
2023 – 2024	DevOps Certification Udemy (125 hours) AWS, Ansible, CI/CD, Jenkins, Git, Docker, K8, Linux, Terraform, Microservices



#### Full-Stack REST API - Football Tracker & Auction Platform

Technologies: Java Spring Boot | AWS | ReactJS & MUI | MySQL | Docker | JMeter | Postman | JUnit5 | Selenium

# **Real-Time Football Match Tracker**

Built a platform for users to create games, manage scores, and view live update scores and league tables.

#### **Real-Time Auction Management System**

Built a platform for users to upload products, place bids, and manage balances with live bid updates.

#### Frontend

- Built responsive **SPA**s with modular, reusable components for efficiency and scalability.
- Deployed frontend applications on AWS S3 with CloudFront for secure and fast content delivery.

#### Backend

- Developed backend services following the MVC architecture, ensuring clean code separation and scalability.
- Used Spring Data JPA and Hibernate ORM for efficient database interactions.
- Ensured data consistency with Transactional Management for bids, live scores, and balance management.
- Designed **WebSocket** for real-time updates like live scores, bid placements, auction closing).

## Database

• Integrated MySQL and deployed it on AWS RDS with multi-AZ replication for reliability.

#### Security

- Implemented JWT-based authentication and role-based authorization for secure access.
- Used AWS Secret Manager, and IAM roles for secure deployments.

#### Deployment & Scalability

- Containerized applications using **Docker** to ensure consistent and scalable deployments across environments.
- Deployed on EC2 and S3, and optimized auto-scaling, Reduced costs by 20% while maintaining high availability.
- Configured Route 53 for DNS management and ensured secure, high-performance deployment under a VPC.

#### Performance & Testing & Automation

- Conducted load testing using JMeter, ensuring the system could handle real-world traffic spikes.
- Improved throughput by 15% during peak usage, ensuring low latency even under high load.
- Utilized **Selenium** and **JUnit** to automate browser interactions and perform functional testing.