

Khodor Hassoun

Software Engineer

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Summary

Software Engineer with production experience building backend systems for high-volume financial and blockchain applications and a strong background in TypeScript, Java, and C# across frameworks like React.js, .NET, and Spring Boot. Operates in a problem-solving, full-ownership mentality to build performant and optimal end-to-end features that can handle millions of requests.

Experience

Gearlay Technologies Inc Software Engineer

Canada

10/2024 – 01/2026

- Developed core features for Maestro Bot, a leading Telegram crypto trading bot using TypeScript, MongoDB, Redis, ethers.js and @solana/web3.js across Solana and EVM chains.
- Led the integration of Durable Nonces into Solana transactions using @solana/web3.js package, Redis and MongoDB, doubling transaction speed and enabling parallel submission with external RPC providers without added user fees.
- Built a low latency Laserstream Solana Geyser pipeline over WebSocket with native spl-token package for response decoding, increasing transaction analysis by 50% compared to existing Whirligig solution.
- Created several MongoDB migration and benchmarking scripts, ensuring low downtime and maintenance for 300,000 users.
- Solved user facing issues across Solana, Ethereum and Binance chain by analyzing logs, replicating errors and creating solutions to enhance system reliability.
- Implemented Jest unit tests and performed manual testing to validate new code and features, ensuring all updates are production ready with no regression.
- Integrated several MEV protected providers such as Jito, Temporal, Merkle and 0slot using Http requests to provide users with the safest Solana trading routes.
- Collaborated with engineering team in standups to discuss task progress, sprint goals, knowledge sharing and delivery timelines.

VML

Software Engineer

Lebanon

05/2023 – 10/2024

- Built backends with .NET/C# and Java Spring Boot and frontends with React.js to deliver solutions to the largest organizations in Saudi Arabia, UAE, Norway and South Korea.
- Led a research and development project using C#, CsvHelper and QuestPDF NuGet packages, transforming a sports company CSV datasets into a PDF with custom designs.
- Developed and maintained a Java Spring Boot microservice using Spring Data JPA, MariaDB, KeyCloak and Docker, ensuring isolation and independence for deployment.
- Created a Figma plugin using TypeScript and the Figma Plugin Developer Api to automatically create custom components, reducing load on copywriters and designers.
- Collaborated closely with the business team to discuss project feasibility, gather requirements, and enhance the design to ensure client satisfaction.

Skills

- **Programming Languages:** TypeScript, JavaScript, Java, C#, Python.
- **Backend & Libraries:** Node.js, Express.js, NestJS, Java Spring Boot, Java Spring Data JPA, .NET, ASP.NET, ethers.js, @solana/web3.js, Mongoose, Prisma ORM, Drizzle ORM, memoizee, Jest, socket.io, axios.
- **Database & Cache:** MongoDB, MySQL, Redis.
- **DevOps & Tooling:** Docker, GitHub.
- **Frontend & Design:** React.js, Next.js, HTML, CSS, Tailwind CSS, Bootstrap, Figma, Postman.
- **CMS:** Sitecore, Optimizely, Liferay, Stripo, MailChimp.

Education and Certifications

Bachelor in Science in Computer Science, First Class Honors

11/2019 – 08/2022

Arab Open University, Lebanon | The Open University, United Kingdom

AWS Certified Cloud Practitioner

06/2024 – 06/2027

Full Stack Engineer, SE Factory

09/2022 – 12/2022

- Completed an intensive web development bootcamp and delivered an end-to-end capstone project using Node.js, Express, Prisma, MySQL, JWT for backend; Figma, React, Redux, Recharts, Tailwind CSS for frontend, collaborated on team deliverables, and rapidly adopted frameworks like React and Express.

Languages

- English (Fluent), Arabic (Native)