# Mohammed Sebbagh | Full Stack Engineer

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## PROFESSIONAL SUMMARY

- 4+ Years of experience as a FullStack Developer with expertise in TypeScript, JavaScript, React, Node.js and SQL. Highly skilled in developing web applications and maintaining codebases, as well as utilizing agile methodologies to deliver projects on time.
- Proficient in several programming languages, including Typescript, JavaScript (ES6+), and Python.
- Experience working with various Web development frameworks, such as React.js, Redux, Next.js, Express.js, and RESTful APIs.
- Experience with various databases, including NOSQL (MongoDB) and SQL(PostgreSQL)
- Experience working with various CSS frameworks, such as Tailwind CSS, Bootstrap, and Material UI.
- Experience with version control tools like Git and build tools like Webpack and Vite.
- Experience working with various testing tools, such as Jest, Puppeteer ,Enzyme, and SuperTest.
- Familiar with containerization technologies like Docker and cloud platforms like AWS

## TECHNICAL SKILLS

- **Frameworks**: React.js, Next.js ,Node.js, Express.js, Deno, Fresh, Preact, Oak
- **Tools**: Git, Redux, Jest, RESTful APIs, Puppeteer ,Enzyme, SuperTest.
- **SDLC**: Agile, Waterfall
- **Databases**: Oracle 10g/11g, MS SQL Server. including NOSQL (MongoDB) and SQL(PostgreSQL)
- **Language**: SQL, PL/SQL, JavaScript(ES6+),Python

## EXPERIENCE

**Software Engineer | OSLabs, New York, NY** **Dec 2020 - Present**

- Developed an open source memory tool for tracking potential memory leaks, and displaying real-time memory statistics in easy-to-read charts.
- Leveraged React Fresh's just-in-time rendering and the component island pattern to optimize client-side rendering, reducing page load time by >50% , while still allowing for server-side rendering and a highly resilient application.
- Utilized Preact to develop a lightweight, browser-based application with fast rendering, efficient memory usage (less than 3MB of memory consumption) and compatibility with React's API to rapidly build and deploy the application with no build tools required.
- Developed a Deno and Oak server to efficiently mine and transmit memory data via Websocket connection, handling up to 1000 connections without degradation in performance while maintaining optimal CPU and memory usage for reliable operation.
- Implemented Deno's standard Websockets API to establish and maintain persistent client-server communication in a memory mining and transmission application, allowing for efficient and reliable data transfer between the server and clients.
- Created an interactive, real-time chart using Chart.js to visualize heap memory data over time. Improving data analysis to quickly identify memory usage trends and prevent memory leaks, resulting in more efficient resource management and reduced downtime.
- Engineered cross-platform compatibility Denosoar CLI with start/stop recording frequency adjustments,, beta load testing tool, and created a help command to provide users with instructions for all available CLI commands improving efficiency and flexibility.
- Enforced TypeScript’s type checking to catch errors early in the development process, resulting in a more stable and maintainable codebase. This approach helped increase the efficiency of the code review process by >30% and reduced debugging time by >20%.

**Junior Full Stack Developer | Valley Health System, NJ** **April 2019 - October 2020**

- Developed and maintained user-friendly web applications using the MERN stack, including building responsive UI components with React.js and implementing server-side logic with Node.js and Express.js.
- Collaborated closely with cross-functional teams to translate business requirements into functional software solutions, ensuring seamless integration between front-end and back-end systems.
- Assisted in the design and implementation of RESTful APIs, enabling efficient data retrieval and manipulation while adhering to industry best practices and security standards.
- Participated in code reviews and contributed to ongoing code refactoring and optimization efforts, enhancing application performance, maintainability, and scalability.
- Actively engaged in continuous learning, staying up to date with the latest technologies, frameworks, and development trends to drive innovation and bring fresh ideas to the team.

## EDUCATION

**New Jersey Institute Of Technology, Newark, NJ |** B.S, Applied Physics –Optical Science and Engineering **2017**

## PUBLIC TECH TALKS (Sponsored)

**Deno | Speaker @ Jeeny and Bractlet Software Engineer Speaker Series** **2022**

- Spoke on the advantages of Deno over Node.js, including its convenience for TypeScript projects, and demonstrated how Deno solves existing inconveniences in Node.js projects.

## INTERESTS

Playing Pool and Petanque | a member of APA (American Pool Association) | a member of FPUSA (Federation of Petanque USA)