

# Tarek Chafroud

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Tunisia

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## SUMMARY

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- **Experienced Software Engineer and Open Source Contributor with Google products** with over 3 years of experience in designing, developing, and optimizing scalable web applications. Skilled in **React.js, Node.js, NestJS, and DevOps**, with a strong emphasis on security, performance, and maintainability. Proficient in delivering multilingual solutions (English, French, Arabic, and German) and producing high-quality software through clean code, efficient practices, and collaborative development.

## EXPERIENCE

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- **SoftyLines** Sousse  
*Full Stack Developer* 2022 - Present
  - Led the development of client and superadmin dashboards, which streamlined management and refined data visualization for better decision-making.
  - Initiated a customizable video player tool, ensuring seamless integration and playback across different platforms (`video_uploader_bmdrm`).
  - Launched a download functionality package, simplifying complex download logic and making it more user-friendly for our clients.
  - Fixed **70%** of UI bugs, resulting in a threefold increase in application speed, which significantly enhanced user experience.
  - Implemented multitenancy and optimizations such as virtualization and memoization, combined with Redux Toolkit for efficient caching, which reduced latency from 280ms to 120ms and improved overall application performance by **35%**.
  - Developed custom components and applied real-time functionality with **70%** updates, incorporating role-based access control to enhance security and user management.
  - Established a responsive, multilingual platform in English, French, and Arabic, boosting accessibility and contributing to a **25%** growth in new user registrations within six months.
- **Move Up IT Solutions (Internship)** Tunis  
*Web Developer* 2021
  - Executed a microservices application integrating Accounting, Human Resources, LMS, and Identity Management modules, streamlining business operations and increasing overall efficiency by **30%**.
  - Utilized Angular and Node.js to revamp the UI and enhance back-end functionality, leading to a **25%** faster page load time and a **20%** improvement in user satisfaction scores.
  - Executed Docker containerization, reducing deployment time by **40%** and ensuring environment consistency across development and production stages.
  - Integrated Kafka for real-time data streaming, improving inter-service communication latency by **35%**, enabling faster business insights and decision-making.
  - Built robust APIs with Express.js, resulting in a **50%** reduction in API response times, enhancing front-end and back-end interactions.
  - Deployed services on Azure cloud, achieving **99.9%** uptime and reducing infrastructure costs by approximately **15%** through optimized resource management.
- **Freelancer & Open-Source Contributor** Tunis  
*Full Stack Developer* 2020 - Present
  - Developed three e-commerce websites with product listings, shopping cart, secure checkout, and order management for clients in Libya, Italy, and France, resulting in an average **25%** increase in client online sales.
  - Designed and implemented features such as Excel file import/export/manipulation, dynamic SQL-based chart generation, and dashboard creation for Migradata, enhancing client data management efficiency.
  - Contributed to the open-source project **Shaka Player** by implementing both static and dynamic watermarking solutions, improving video content protection capabilities.
  - Developing an international multiplayer trivia game ("FakeOut Trivia") using microservices and Golang, where players submit fake answers to mislead others and earn points by identifying the correct ones. (*Work in Progress*)
  - Mentored over **10** students in web development, covering frontend and backend technologies, project architecture, and industry best practices, helping them successfully complete their academic and personal projects.

## PROJECTS

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- **BMDRM: Secure Video Streaming Solution (In Progress):** Led the development of client and superadmin dashboards for management and data visualization. Created a customizable video player tool and a download functionality package.  
**Tools:** Next.js, Docker, Consul, Nginx, Nomad, PostgreSQL, React Query
- **SoftyProject: E-learning Platform Development:** Crafted a user-friendly e-learning platform, with responsive design and multilingual support (EN/FR/AR).  
**Tools:** React.js, Node.js, Sass/SCSS, Git, PostgreSQL, React.js, NestJS, Sass/SCSS, Redux Toolkit
- **TAM: Task Management Solution:** Built features similar to ClickUp, focusing on efficient task management and collaboration.
- **Migradata Admin Portal:** Established functionalities for Excel file import/export/manipulation, SQL query execution for dynamic chart generation (pie, line..etc), and a dynamic dashboard creation feature.  
**Tools:** React.js, NestJS, Tailwind, MUI, React-grid-layout, Docker, Antd, Shaden, Sass, Strapi, PostgreSQL

EDUCATION

- **Horizon digital school**

*Masters in Software Engineering and DevOps*

○ Relevant Coursework: Kubernetes, Backend Development, AWS (Amazon Web Services), C, DevOps Practices, Cloud Computing, Advanced Software Design, etc.

Sousse  
2022 - 2024
- **Iset Nabeul**

*Bachelor's degree in Computer Technology*

Nabeul  
2020 - 2022

SKILLS

- **Front-end:** React.js, Next.js, TypeScript, JavaScript, HTML, CSS, Redux, Tailwind CSS, Material-UI (MUI)
- **Back-end:** Node.js, Go (Golang), NestJS, Express.js, REST APIs, WebSockets
- **DevOps:** Docker, Kubernetes (k8s), Git, CI/CD, GitHub Actions, GitLab CI, Jenkins, Nginx, Nomad, Consul, Helm
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis, SQL
- **Others:** Competitive Programming, Agile/Scrum, Linux, Jest, React Testing Library, Cypress, Postman

LANGUAGES

- **Arabic:** Native
- **French:** Highly proficient
- **English:** Highly proficient
- **German:** Conversational