

# KARIM YAKOUB

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## SUMMARY:

**Software engineer** with 2.5 years of professional SAAS and SDLC experience, specializing in full-stack development using React, PostgreSQL, Docker-powered APIs, and containerized TypeScript, Java, and Python Applications.

**Areas of Expertise:** FULL-STACK DEVELOPMENT // DATABASE DESIGN // DEPLOYMENT AUTOMATION

## EDUCATION:

**Oregon State University**, Corvallis, OR

Bachelor of Science in Computer Science

Jan. 2023 - Mar. 2025

Relevant Coursework: Operating Systems, Data Structures and Algorithms, Networking, Parallel

Database Development, Computer Architecture and Assembly, Analysis of Algorithms,

## TECHNICAL PROFICIENCIES:

- **Languages** – TypeScript, Python, Java, C, JavaScript
- **Frameworks** – React, Next.js, Node.js, Django, Spring Boot, Express.js, Jest, Tailwind CSS
- **Database & DevOps** - PostgreSQL, MySQL, Docker, PostGIS, Git, AWS, GCP

## WORK EXPERIENCE:

**Software Engineer**

Jan. 2025 - Present

Mindhop, White Plains, NY

- Reduced API call redundancy by 40% by refactoring 3,000+ lines of legacy React code with TanStack Query.
- Automated build and deployment workflows by writing Dockerfiles and configuring Github Actions pipelines, eliminating manual steps and accelerating release cycles.
- Boosted feature delivery speed and code consistency by building 10+ reusable Next.js and Tailwind components.
- Cut dashboard load times by 30% through optimizing PostgREST queries to trim payload size and execution time.
- Integrated KendoReact & eCharts for interactive charts and tables, boosting user engagement 30% and cutting load time 40%.
- Authored PostGIS SQL to filter 10K+ events, improving map-search accuracy 25% and halving irrelevant results.

**Junior Software Engineer**

Jan. 2023 - Dec. 2024

Bonny Systems, Wayne, NJ

- Supported development of backend systems for five local businesses, integrating server-side functionality to handle over 1,000 daily requests.
- Developed and maintained a REST API using Node.js, TypeScript, and PostgreSQL—boosting endpoint performance by 20% and enabling 50% more concurrent users.
- Collaborated with the frontend team to decompose requirements into story points, delivering a minimal viable backend in just two sprints.
- Implemented scalable React applications, reducing page load times by 30% and improving cross-device responsiveness.

## PROJECTS:

**Crescendo Music**

*Full-Stack Social Media Site for Music Tracking*

- Containerized the application with Docker and deployed to DigitalOcean for reliable, scalable hosting.
- Engineered an Express.js REST API to support full CRUD functionality for user interactions.
- Integrated LastFM and Spotify APIs to fetch and display trending album data in real time.
- Implemented secure JWT-based authentication, storing tokens in HTTP-only cookies.
- Implemented a PostgreSQL database to efficiently store user data like emails, albums, and reviews.