

Omar ACHKIR

Software Engineering Graduate

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Summary

A motivated and detail-oriented Software Engineering graduate from the ALX program, with hands-on experience in building full-stack web applications. Passionate about designing efficient back-end systems, robust databases, and automated deployment pipelines. Eager to apply my skills in back-end development and DevOps to contribute to a fast-paced startup environment.

Technical Skills

- **Back-End:** Python, Flask, JavaScript (Node.js), Express.js, RESTful API Design
 - **Databases:** MySQL, MongoDB, Database Schema Design, Data Migration, SQL
 - **Front-End:** HTML, CSS, JavaScript, React, Bootstrap
 - **DevOps & Tools:** Git, GitHub, Linux/Bash, Nginx
 - **Concepts:** Object-Oriented Programming (OOP), Authentication, Authorization, Encryption
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Projects

CarBnR (Car Booking and Renting) | *Personal Full-Stack Project*

- Developed a full-stack web application allowing users to browse, book, and rent vehicles, implementing two separate back-end architectures to explore different technology stacks.
- **Flask/MySQL Version:**
 - Engineered a normalized relational database schema in MySQL to efficiently manage user data, vehicle listings, and booking transactions.
 - Implemented a secure authentication system using Flask-Login with password hashing.
 - Developed a RESTful API with Flask to handle all CRUD operations for the front-end.
- **Express.js/MongoDB Version:**

- Designed a flexible document-based data model using MongoDB to store application data.
 - Built a high-performance API backend using Node.js and Express.js with async/await patterns.
 - Containerized the application using Docker for consistent development and deployment.
 - **Front-End:** Built dynamic and responsive user interfaces; one with vanilla JS/Bootstrap and a more advanced, single-page application (SPA) using React.js.
 - **Deployment:** Configured an Nginx web server on a Linux VPS and wrote Bash scripts to automate the deployment process for the application.
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Education

ALX Software Engineering Program | *[Online]* *[02-2023] – [05-2024]*

- A 12-month intensive program covering foundational software engineering concepts, including low-level programming, high-level programming, data structures & algorithms, and full-stack web development.
- Developed multiple portfolio projects through project-based learning and peer collaboration.