

Housseem Eddine Zerrad

Senior Software Engineer

Details

Phone

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Email

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Links

Website

GitHub

LinkedIn

Skills

Complex Problem Solving

Decision Making Skills

Strong Remote Working Skills

Engineering Best Practices

Advanced Software System Knowledge

Advanced Database Modeling

Cloud Architecture & Engineering

Containerization (OCI)

DevOps

Microservices

Go

Python

TypeScript

Git

SQL

NoSQL

Docker

Profile

Highly skilled Senior Software Engineer with 8+ years of experience in building scalable, high-performance web and cloud applications. Expertise in Go, Python, TypeScript, and cloud architecture, with a proven track record of reducing infrastructure costs, improving development velocity, and leading teams. Seeking a remote position where I can leverage my deep technical expertise and collaborative skills to drive innovation and deliver exceptional software solutions.

Employment History

Senior Software Engineer, Ordaos Bio

Oct 2024 – Present 📍 New York - Remote

- Designed and implemented data models to represent complex in-silico generated protein data and interactions, speeding the process of data ingestion and retrieval by 70%.
- Created scalable and highly flexible SQL queries to handle large volumes of protein modeling data, improving the performance of critical data retrieval and analytics operations.
- Collaborated with stakeholders to define and refine the internal technological platform, delivering high-quality software that enables drug discovery on a timely manner.
- Collaborated with cross-functional teams, including DevOps, ML and frontend engineers, to streamline deployments, improve observability, and maintain data integrity across services.

Lead Software Engineer, Master Technology Computers

Jul 2023 – Oct 2024 📍 Sétif

- Developed a comprehensive set of engineering best practices to improve overall development efficiency.
- Led a team of developers to successfully complete a major software project on time and within budget.
- Architected a cloud-native system that leverages serverless technologies for improved scalability and cost savings.
- Established coding standards and best practices, leading to a 15% reduction in code review time and higher code quality across the team.

Senior Software Engineer, Master Technology Company

Oct 2020 – Jun 2023 📍 Sétif

- Designed and developed a highly-available, fault-tolerant web application using modern cloud technologies.
- Developed a secure authentication system with two-factor authentication and user identity management.

Kubernetes

Terraform

Languages

English



French




- Architected and led the migration from a monolithic Elixir backend to a microservices architecture, boosting load capacity by 200%.
- Built a distributed system that increased throughput by 120%.
- Implemented an event-based microservices architecture that improved system modularity and reduced dependencies between components.
- Implemented a Continuous Integration/Continuous Deployment (CI/CD) pipeline that reduced time-to-deployment from 1 day to ~40 minutes.

Founding Engineer, Fortune.app

Oct 2023 – May 2024  Montréal - Remote


- Led the backend migration from JavaScript to TypeScript, improving code maintainability and reducing production error reports by 64%.
- Designed and implemented key features, including multi-tier subscription logic and real-time currency exchange, enhancing user satisfaction and retention, and reducing churn by 71%.
- Developed automated scripts to simplify common tasks and reduce manual effort
- Implemented automated testing that increased code coverage to 98.41%, reducing the number of production issues by 81%.
- Conducted code reviews to improve code quality and ensure adherence to best practices.
- Developed REST APIs and implemented authentication protocols, such as OAuth, to securely expose data to clients.

Software Developer, IntegrationOS

Jul 2022 – Jul 2023  Toronto - Remote

- Led critical research and analysis, driving innovation in IntegrationOS's integrations.
- Pioneered the development of scalable streams, queues, and workflows capable of handling billions of events, increasing system efficiency.
- Established a clear contracts for developing source integrations and target integrations, improving the ability to add new integrations by 300%.
- Developed over 10 source integrations and 6 target integrations, including GitHub and Shopify, contributing to a 75% increase in customer acquisition.
- Recognized as the top contributor to IntegrationOS's open-source Core repository.

Software Developer, FelixSmart

Mar 2020 – Oct 2020  Calgary - Remote

- Played a critical role in debugging and reconstructing the smart aquarium firmware, restoring system functionality and reducing customer churn.
- Performed deep optimization of the smart aquarium firmware, reducing errors by 90%.
- Established real-time connectivity between the aquarium system and the Firebase backend, reducing costs by 22% and enhancing system feedback.

Education

Ferhat Abbas Sétif University 1, Master of Science in Computer Science Fundamentals and AI

Sep 2015 – Sep 2020  Sétif

Graduated as valedictorian with an average of 18/20 (equiv. 3.8/4.0 CGPA)