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Ghazian Azfar

Software Engineer

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Software Engineer experienced in developing customer-focused applications and user-centered solutions with intuitive design. Currently building real-time sports data dashboards and visualizations for SaaS products, spanning front-end and back-end services.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Go
Databases	PostgreSQL, DynamoDB, Redis / AWS Elasticsearch
Back End	Kubernetes, Django, Docker, AWS, Terraform (IaC), GraphQL, WebSockets, REST API
Test	Jest, Testing Library, Playwright
Web Development Skills	React, MUI, NextJS, TypeScript, Styled Components, Node.js, Remix, Zustand, Zod, Redux Clean Code, Extreme Programming, CI/CD (Github Actions) & Accessibility

WORK EXPERIENCE

Mid Software Engineer Jan 2024 — Present
IMG Arena London, UK

- Developed and maintained a real-time, data-driven web platform showcasing over **1000+ live sports events globally**. Designed scalable solutions utilizing **WebSockets** for low-latency updates and **REST APIs** for data retrieval.
- Introduced design principles to create reusable components, ensuring **consistent UI/UX design standards** across **2 product lines**. This improved the overall design and made it easy for team members of all skill levels to compose and extend components.
- Developed the company's first **data and table visualization** package, which includes a suite of customisable widgets and themes. This package is now used throughout the organization and externally.
- Designed and implemented high-performance APIs in **NodeJS**, optimizing server-side data processing and achieving a **50% decrease in data retrieval speeds**, along with API documentation in **Docusaurus** library.
- Successfully implemented and deployed **Redis** as an in-memory caching solution for heavy API calls and **PostgreSQL** for static data **reducing response times by up to 200%**.
- Mentored and onboarded** graduate team members through a mentor buddy program, facilitating their integration into the team.

Junior Software Engineer Jul 2022 — Jan 2024
IMG Arena London, UK

- Leveraged Kubernetes health checks and Datadog metrics to ensure the **resiliency and reliability** of microservices. Created Datadog dashboards to monitor application health and configured monitors for alerts.
- Actively wrote tests, integration/unit with **Jest** and E2E tests with **Playwright** and **Mock Service Worker (MSW)**, I also wrote our test environment through MSW, mocking WebSockets, GraphQL, REST API responses.
- Implemented state management in our React application to streamline network performance, resulting in a **40% decrease in latency across** thousands of WebSocket messages, GraphQL and REST API integrations, ensuring a seamless user experience.
- Developed the applications **CI/CD**, ensuring that every branch on the latest commit triggers continuous integration for tests, UI deprecation, and network health.

Consulting Intern Sept 2018 — Dec 2018
Deloitte Jakarta, IDN

- Created a **Python** script to assess workflow documents and extract vital metrics resulting in a **2-hour reduction** in work.
- Facilitated workshops with VP/Manager level to uncover pain points and potential use-cases of the transformation program.

EDUCATION

Master of Science in Computer Science, University of Glasgow | Aggregate 2:1 Jan 2021 - Jan 2022
Bachelor of Technology in Computer Science, University of Binus | Aggregate 2:1 Sept 2015 - Jan 2020

PROJECTS

BIG DATA CORESET CONSTRUCTION IN K-MEANS PROBLEM Jan 2022

- Created a lightweight coreset construction for K-Means problem along with 3 algorithms based on the works of [1][2][3], to reduce the amount of space time complexities machines currently use when clustering K-Means problem of large data sets.
Platforms - Python, NumPy, Matplotlib (data visualization), Pandas, Shell Scripting and Tensor Flow.

Other Projects include - Real time bike sharing web application with **Flask**; Using Artificial Intelligence to play Flappy Bird using **Neural Network** and **Genetic Algorithms**.