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# Ghazian Azfar

Software Engineer

GitHub: ghazian
Portfolio Site
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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

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|---|---|
| **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** | React, MUI, NextJS, TypeScript, Styled Components, Node.js, Remix, Zustand, Zod, Redux |
| **Skills** | 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 **65,000+ 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**.