Ghazian Azfar
Software Engineer

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As a Software Engineer, I am dedicated to creating user-centered solutions that emphasize intuitive design and seamless user experiences across both frontend and backend implementations. With expertise in backend technologies such as AWS, PostgreSQL, REST API technologies, WebSocket, and Node and proficiency in frontend frameworks like React, JavaScript, and NextJS my commitment is to develop robust and scalable products closely aligned with core business objectives, ensuring users encounter no distractions.

WORK EXPERIENCE

Software Engineer   **Jul 2022 — Present**
IMG Arena   *London, UK*

- Improved the design of the monolithic application by introducing design principals to create reusable components that are easy to compose and extend for those of all skill levels. This ensured consistent UI/UX design standards across 2 product lines.
- Developed and pioneered the company's first data and table visualization package, used throughout the organization and externally, along with a suite of customisable widgets and themes.
- Lead the team to rewrite the 10 year old monolithic Angular application into modern frameworks and extract out many standalone npm packages into small microservices running on AWS.
- Spearheaded the design and implementation of high-performance APIs, data processing across server-side infrastructure; accelerated data retrieval processes by 50%.
- Facilitated onboarding of graduates into the team and up-skilling through mentor buddy program.
- Directed the implementation of Zustand state management to streamline network performance, resulting in a 40% decrease in latency across WebSocket and REST API integrations, ensuring a seamless user experience.
- Orchestrated the design and deployment of a robust logging infrastructure, boosting project monitoring and debugging efficacy by 50%, along with developing monitor systems to alert critical system downtime.
- Led the coordination and delivery of 10+ engaging internal presentations, nurturing a culture of continuous learning and collaboration; encouraged team members to share insights, best practices, and drive innovation.
- Developed an automated infrastructure workflow utilizing Terraform with Kubernetes to streamline deployment processes.
- Engineered and enforced robust security frameworks, instrumental in securing ISO 27001 certification; fortified data integrity and privacy, mitigating security threats and achieving 99.9% uptime.

Consulting Intern   **Sept 2018 — Dec 2018**
Deloitte   *Jakarta, IDN*

- Created a Python script to assess workflow documents, extract vital metrics, and streamline manual tasks, resulting in a 2-hour reduction in work time per cycle.
- Facilitated workshops with key client stakeholders VP/Manager level to uncover pain points and potential use-cases/requirements of the transformation program.

ACADEMIC PROJECT

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**.

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**

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, TypeScript, Go, Scala
Databases	PostgreSQL, DynamoDB, MySQL, MongoDB, SQL
Back End	Kubernetes, Docker, AWS, Terraform (IaC), K6s, Zio, Gin, GraphQL, WebSockets, REST API
Test	Jest, Testing Library, Playwright, Postman & Storybook
Scripting	Powershell, Linux-Bash Scripting, UNIX
Web Development	React, MUI, NextJS, TypeScript, Styled Components, Node.js, Remix, Zustand, Zod
Skills	Clean Code, Extreme Programming, CI/CD (Github Actions) & Accessibility