Ilyas Arya

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PROFESSIONAL SUMMARY

Over the years, I've had the privilege of working on transformative web solutions that merge technology with real-world impact. As a software web engineer, I've honed my skills in React.JS, Vue.JS, Next.JS, Node.JS, Firebase, GCP and AWS to develop scalable, user-centric applications.

One of my proudest achievements was when I managed 25-30 people in AI Department of Bank BRI (one of the largest Bank in Indonesia), also serve application that accessed by 100.000++ users among in Indonesia. Collaborating with cross-functional teams, I learned the value of combining technical expertise with communication and problem-solving.

What drives me most is the ever-evolving nature of this industry. From optimizing code for performance to staying ahead with modern tools like Next.JS, Nest.JS, Cloud Platform (GCP, AWS, Firebase), I enjoy pushing the boundaries of what's possible on the web.

SKILLS

PERSONAL

- Innovative problem solver with a keen eye for optimization.
- Adaptable polyglot developer passionate about learning new technologies.
- Detail-oriented engineer committed to clean and maintainable code.
- Collaborative team player with strong technical communication skills.

PROFESSIONAL

- **Frontend**: React.JS, Vue.JS, Next.JS
- **Backend**: Express JS, Nest.JS, Fast API
- **Programming Language**: Typescript, Python
- **Cloud Platform & Devops**: Docker, Kubernetes, Jenkins, Firebase, GCP, AWS
- **Testing**: Jest, Cypress, Katalon

EDUCATION

Institut Teknologi Bandung (2015 – 2019)
Bachelor of Geophysical Engineering – GPA 3.13/4.00

WORK HISTORY

Software Engineer | Alvisual |Singapore | Jan 2022 - now | Full-time

- **Cross Platform Development**
  - Building efficient and consistent apps across platform using frameworks like Flutter, React Native, or Kotlin Multiplatform, while leveraging native capabilities when required.
- **Native Expertise**
  - Leveraging deep expertise in native app-development (Kotlin, Swift and Jetpack Compose) to deliver platform-optimized, featured-rich experiences.
- **App Store Optimization and Delivery**
  - Ensuring seamless deployment to app stores with streamlined CI/CD pipelines, automated testing, and adherence to platform-specific guidelines.
- **Offline Functionality**
  - Enhancing user experience with offline capabilities using local databases, caching strategies, and background synchronization.
- **Notification Systems**
  - Implementing reliable and engaging notification systems with push notifications (Firebase Cloud Messaging, APNs), in-app messaging, and scheduling to improve user engagement and retention.

Technical Lead | Bank Rakyat Indonesia | Indonesia | Jan 2021 – Dec 2021 | Contract

- **Technical Vision and Strategy**
  - Defining and driving the technical roadmap, aligning engineering efforts with business objectives to deliver scalable and innovative solutions.
- **Code Quality and Reviews**
  - Upholding high code standards through automated testing (unit, integration, and E2E), meticulous code reviews, and enforcing best practices across team.
- **Team Mentorship and Leadership**
  - Empowering engineers through mentorship, fostering technical growth, and creating and inclusive environment for collaboration and innovation.
- **Cross Functional Collaboration**
  - Bridging the gap between engineering, product, and design teams to deliver seamless and impactful solutions while managing stakeholder expectations.
- **Scalable System Design**
  - Architecting scalable, high-availability systems and guiding teams in designing resilient infrastructures with microservices, event-driven patterns, and cloud-native principles.
- **Process Improvement and Efficiency**

- Streamlining workflows by implementing agile methodologies, DevOps practices, and robust CI/CD pipelines for faster, reliable deliveries.
- **Security and Compliance Leadership**
  - Leading security initiatives, implementing best practices for data protection, encryption, and regulatory compliance to safeguard systems and user data.
- **Performance Monitoring and Optimization**
  - Overseeing system performance with metrics-driven insights, optimizing latency, scalability, and resource utilization for peak efficiency.
- **Risk Management and Problem-Solving**
  - Anticipating technical challenges, mitigating risks proactively, and resolving complex issues to ensure project success under tight timelines.
- **Innovation and Thought Leadership**
  - Driving innovation by staying ahead of industry trends, integrating cutting-edge technologies, and fostering a culture of continuous learning and improvement.

Backend Engineer | DDTC | Indonesia | Jun 2020 – Dec 2020 | Full Time

- **API Design and Scalability**
  - Designing and implementing robust, scalable, and RESTful or GraphQL APIs that ensure seamless integration and efficient data exchange.
- **Code Quality and Reviews**
  - Maintaining high quality code standards through comprehensive testing (unit, integration, and end-to-end tests) and rigorous code reviews to prevent technical debt.
- **Database Optimization and Management**
  - Ensuring database performance and reliability through efficient schema design, query optimization, indexing, and data migration strategies (SQL and NoSQL).
- **Microservices Architecture**
  - Building highly scalable, modular, and fault-tolerant microservices using frameworks like NestJS, or Express with seamless inter-service communications.
- **Cloud Infrastructure and DevOps**
  - Orchestrating backend services in cloud environments (AWS, GCP) using containerization (Docker), orchestration (Kubernetes), and CI/CD (Jenkins) pipelines for automated deployments.
- **Security Compliance**
  - Securing backend systems by implementing best practices like OWASP standards, encryption, authentication, and ensuring compliance with GDPR, HIPAA, or similar regulations.
- **Performance Optimization**
  - Enhancing backend performance with caching strategies (Redis, Memcached), load balancing, and asynchronous processing using queues like Rabbit MQ or Kafka.
- **Event-Driven Architecture**
  - Designing scalable event-driven systems with tools like Apache Kafka, AWS SNS/SQS, or Google Pub/Sub to handle real-time data processing and asynchronous workflows.
- **System Monitoring and Observability**

- Proactively monitoring application health and debugging issues observability tools like Prometheus, Grafana, and ELK Stack for logging and metrics.

Frontend Engineer | Telkom | Indonesia | Aug 2019 – Jun 2020 | Contract

- **Performance Optimization**
  - Crafting blazing-fast web applications by leveraging advanced technique like code splitting, lazy loading, tree shaking and prefetching resources.
- **Scalable Architecture**
  - Designing modular, reusable, and scalable frontend architectures with state management libraries (Redux) and micro-frontend patterns using bit.
- **Responsive and Accessible Design**
  - Implementing pixel-perfect, responsive and WCAG-compliant designs to ensure seamless user experiences across device and demographics.
- **Advanced Framework Mastery**
  - Expertise in modern frameworks like React.JS, Next.JS, Angular, ensuring optimal use SSR, CSR, and hydration strategies.
- **Component Driven Development**
  - Building intuitive, reusable, and maintainable component libraries using Storybook and Material-UI for consistent UI/UX across projects.
- **State Management Excellence**
  - Implementing efficient state management patterns with tools like Redux Toolkit, React Query, or Zustand to handle complex application states with ease.
- **Frontend Tooling and Automation**
  - Optimizing development workflows with modern tools (Webpack, Vite, Eslint, Prettier) and CI/CD pipelines for faster and error-free deployments.
- **Code Quality Maintainer**
  - Maintaining high quality code standards through comprehensive testing (unit, widget, integration tests) and code reviews
- **Testing and Debugging**
  - Ensuring reliability through rigorous testing strategies, including unit, integration, and E2E test, using tools like Jest, React Testing Library and Cypress.
- **Performance Monitoring**
  - Tracking and enhancing application performance using lighthouse, web vitals, and APM tools like New Relic or Google Analytics.