

SETYA PANGGA RAKA PANGESTU

FULLSTACK ENGINEER

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SUMMARY

Fullstack Engineer with 2.5+ years of experience building secure, production-grade web applications across the stack. Comfortable working in remote, async teams across time zones, and experienced in agile startup environments. Skilled in designing secure workflows with Angular, NestJS, PostgreSQL, and TypeScript. Previously contributed React custom hooks in production at Elefin, and currently building Vaultiva — a cloud-native file-sharing platform with password protection, signed URLs, watermarking, and audit logging. Passionate about scalable backend systems, security-first development, and crafting user-friendly interfaces powered by modern frameworks and AI integration.

SKILLS

FRONTEND & UI

React.js (production), Angular v19, Tailwind CSS, Bootstrap, Ant Design (ng-zorro), Material UI, TypeScript, LottieFiles animations, Responsive & Accessible UI (a11y)

BACKEND & DATABASE

PostgreSQL, Supabase (DB, Auth, Realtime – familiar), NestJS, Node.js, Prisma ORM, Express.js, Supabase (DB & Auth), REST API design

SECURITY & API

JWT auth, Signed URLs, XSS prevention, CSP enforcement, Audit Logging, CORS, CSRF protection

CLOUD & HOSTING

AWS EC2 (deployment), Firebase (deployment), Railway (deployment), Secure file access patterns (time-limited links, conditional download)

TESTING & DEV TOOLS

AWS EC2 (deployment), Firebase (deployment), Railway (deployment), Secure file access patterns (time-limited links, conditional download)

SOFT SKILLS

Independent & proactive, Fast learner, Collaborative, Attention to detail, Critical thinking, Problem-solving

WORK EXPERIENCE

ELEFIN INDONESIA | FRONTEND DEVELOPER - REACT & TYPESCRIPT | JAKARTA, INDONESIA | MAR 2023 - PRESENT

Key Achievements:

- Delivered reusable custom hooks (useApp, useDebounce, useConfirm) to simplify state logic and reduce code duplication across large codebase
- Refactored inefficient useEffect usage into event-driven handlers, improving component lifecycle clarity and reducing re-render bugs
- Improved maintainability by restructuring folder system for hooks and components, accelerating onboarding for new devs
- Applied accessibility best practices (a11y) for better keyboard navigation and screen reader support

Security Contribution:

- Investigated and mitigated an HTML Injection vulnerability in dynamic email templates
- Used html-entities to escape unsanitized user input before rendering into backend email content
- Prevented spoofing and phishing risks by enforcing HTML escaping and setting strict Content Security Policy (CSP) headers

HIGHLIGHTED PROJECT

VAULTIVA | INDIVIDUAL PROJECT | ANGULAR + NESTJS

Built and deployed a fullstack secure file sharing app with real-world security and UX challenges.

Live: vaultiva.cloud

- Built Angular frontend with Ant Design (ng-zorro) and Tailwind CSS to support secure upload, download, and protected preview
- Designed time-limited file delivery using Cloudflare R2 Signed URLs, simulating event-driven, secure object storage access.
- Implemented password-protected sharing, visibility control (public/protected/private), expiry timer, and download limit
- Integrated PDF and image watermarking (Sharp + pdf-lib) into secure viewer
- Developed audit logging for file access (email, IP, user agent), JWT-based auth, and email service via Resend
- Auto-deletion system with cron-based file expiry, optimized for Cloudflare R2 object storage
- Enhanced user experience using LottieFiles animations for feedback and transitions
- Implemented strong Content Security Policy (CSP) headers to prevent cross-site scripting (XSS), clickjacking, and untrusted iframe injection
- Unit testing (Jasmine/Karma), planned GitHub Actions CI/CD
- Successfully deployed and used as a demo platform to showcase secure document workflows in production-like conditions.
- Vaultiva was also used internally as a developer tooling showcase, focusing on UX, security, and observability — key focus areas of modern cloud-native applications.

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This project demonstrates my ability to independently build and ship production-grade applications, collaborate asynchronously, and adapt quickly to evolving requirements, skills critical in remote-first, fast-paced teams like The Flex.

Tech Stack:

- **Frontend:** Angular v19, Tailwind CSS, Ant Design (ng-zorro), LottieFiles
- **Backend:** NestJS, Prisma, PostgreSQL, Sharp, pdf-lib
- **Infra:** Cloudflare R2, Resend
- **Testing:** Jasmine, Karma
- **Deployment:** Railway, Vercel, Sumopod (Database)

GitHub: [Frontend Repo](#) | [Backend Repo](#)

EDUCATION

HACKTIV8 | FULLSTACK JAVASCRIPT IMMERSIVE

JAKARTA, INDONESIA

AUG 2022 - JAN 2023

Grades: 87.3/100.0

[Show transcript](#)

UNIVERSITY OF MUHAMMADIYAH MALANG

MALANG, INDONESIA

SEP 2017 - JAN 2022

Bachelor Degree in Electrical Engineering, 3.47/4.00