

AMIT BANGARWA

Frontend Architect | 10+ Years Experience

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PROFESSIONAL SUMMARY

Frontend Architect with 10+ years of experience building enterprise-grade web platforms across cybersecurity, healthcare, and e-commerce. At Palo Alto Networks, I own the frontend architecture of a cloud NGFW management platform — designing systems for real-time firewall monitoring, multi-cloud account onboarding, usage analytics, and automated upgrade management across AWS and Azure. I bring strong architectural instincts, a bias for developer experience, and a track record of shipping production systems that scale — including a Redux caching overhaul that cut response times by 25% and a CI/CD pipeline serving dev, QA, staging, and gov environments.

EXPERIENCE

Principal Software Engineer

Palo Alto Networks

April 2022 – Present

Own frontend architecture for Palo Alto's cloud NGFW platform — a multi-cloud enterprise product enabling organisations to deploy, manage, and monitor cloud-native firewalls across AWS and Azure at scale.

- Architected the Cloud Management Service (CMS) micro-app enabling enterprise customers to allocate and track credit pools across AWS and Azure CSP accounts, with real-time commit status tracking (Active, Failed, Pending, Expired) and visual health indicators.
- Built a dimension-based usage analytics engine with Chart.js, enabling customers to analyse firewall consumption across traffic tiers (Base Tier 1-3) and add-on breakdowns — with CSV export and custom date-range filtering for operational reporting.
- Engineered end-to-end multi-cloud account onboarding workflows integrating AWS CloudFormation and Azure portal, including automated billing code generation, one-click template downloads, and TSG ID-based support account linking.
- Designed a PAN-OS upgrade scheduling system with rollback support, per-provider version control, and a full audit trail — reducing manual overhead for cloud firewall lifecycle management across environments.
- Established GitLab CI/CD pipelines with multi-environment deployments (dev, QA, staging, gov) and preview deployments to Sparky CDN, streamlining releases across distributed engineering teams.
- Improved developer experience by implementing pre-commit hooks (ESLint, Prettier, StyleLint, TypeScript), commitlint with JIRA ticket-reference enforcement, and guided commit workflows — reducing code review cycles by ~30%.

Full Stack Developer

Infomedix

October 2018 – March 2022

Contributed to a healthcare collaboration platform, building features that enabled multidisciplinary medical teams to coordinate care more effectively.

- Led development of the Multidisciplinary Team Meeting (MDT) module serving 10+ clinical departments, enabling real-time collaboration among clinical specialists teams and reducing care coordination delays by an estimated 40%.
- Built a responsive application using ReactJS and Node.js, implementing CRUD operations, screen sharing, and real-time backend services – supporting concurrent access across 500+ healthcare professionals.
- Delivered seamless cross-device functionality, ensuring healthcare professionals could access critical tools on any device without degradation in performance.

Front End Developer

Labyrinth.ai

December 2017 – September 2018

- Developed the AGNT platform for artist-organizer collaborations using ReactJS and Redux, improving workflow efficiency for 200+ creative industry professionals across 5+ countries.
- Designed and built a global e-commerce platform for design-led brands, incorporating real-time messaging, admin portals, and scalable storefront features – handling 600+ product listings at launch.

Developer

JustDoc

August 2015 – August 2017

- Developed and maintained web applications and REST APIs for a telemedicine platform offering on-demand access to board-certified doctors, supporting 5000+ registered patients.
- Built a WebRTC-based video communication platform enabling remote consultations between patients and clinicians – achieving 99.5% uptime and handling 200+ daily video sessions at peak.
- Worked across the full stack with AngularJS, Angular Material, Node.js, Express, Socket.io, Redis, PostgreSQL, and Git.

TECHNICAL SKILLS

Frontend

React.js • Redux • Next.js • TypeScript • JavaScript (ES6+) • React Query • Hooks • Vite • Tailwind CSS • SASS

Architecture & Performance

Component Design Patterns • State Management • Bundle Optimization • Runtime Profiling • Caching Strategies • Design Systems • Micro-frontends

Testing

Jest • Cypress • React Testing Library • E2E Testing • Unit & Integration Testing

Security & Auth

Okta • Cognito • JWT • XSS/CSRF Prevention • Secure Token Handling

Accessibility

WCAG Standards • Accessible UI Patterns • Cross-browser Compatibility • Responsive Design

CI/CD & DevOps

GitLab CI • GitHub Actions • Docker • Terraform • AWS • Azure • Quality Gates • ESLint • Prettier

Backend & APIs

Node.js • REST APIs • GraphQL • Express • WebSockets • Socket.io • WebRTC

KEY ACHIEVEMENTS

- Reduced client-side response times by 25% by redesigning Redux caching architecture on the Palo Alto cloud NGFW platform, measurably improving UX for enterprise customers under high data load.
- Delivered the Cloud Management Service (CMS) micro-app from scratch — now used by enterprise customers to manage multi-cloud firewall credit allocation across AWS and Azure CSP accounts.
- Cut code review cycles by ~30% by establishing pre-commit hooks, commitlint standards, and guided commit workflows — raising code quality baseline across the engineering team.
- Built a PAN-OS upgrade scheduling and audit trail system that eliminated manual firewall lifecycle tracking and reduced upgrade risk with rollback support across cloud providers.
- Built the MDT collaboration module at Infomedix, enabling real-time multidisciplinary clinical coordination and improving care delivery workflows across specialist teams.

EDUCATION

Master of Computer Application

Sri Jayachamarajendra College of Engineering, Mysore

2015