PAWAN KONDEBAI

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SUMMARY

Full-stack developer with 5+ years of experience delivering scalable software for 1M+ users monthly, reducing costs and driving a 10x engagement increase. Proficient in React, Node.js, Python, distributed databases, and AI/ML applications, with expertise in creating data-driven systems and deploying innovative solutions.

EDUCATION

Master of Science in Computer Science | *Arizona State University, Tempe, AZ*   Graduating **May 2025**

Bachelor of Engineering in Electrical and Electronics Engineering | *PES University, Bengaluru, India*   Aug 2017

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, Java, Bash, C, Go, Kotlin

Frontend: React, Hooks, Next, React Native, Redux, Angular, Vue, HTML5, SASS, Material Design, Bootstrap, D3, Webpack, Yarn

Backend & Databases: Django, Flask, NodeJS, Express, FastAPI | Postgres, MongoDB, Redis, Elasticsearch, NoSQL | OAuth 2.0, Native Bridges, GraphQL, REST APIs, gRPC, WebSockets, jQuery, Chakra, Bootstrap

Cloud & DevOps: AWS (ECS, Lambda, S3), GCP, Docker, Kubernetes, Kafka, Jenkins, Chef, Nginx, CI/CD, Linux

Software Methodologies: Microservices, Distributed Systems, Responsive Web/Mobile Dev, PWAs, Agile, Scrum

Tools & Platforms: Git, Jira, Kibana, Confluence, Jest, Mocha, Babel

WORK EXPERIENCE

Senior Software Engineer, Enphase Energy, *Bengaluru, India*   Apr 2023 - Dec 2023

- Owned epics for **internationalization** and localization in the Solargraf application, utilizing i18next and react-intl to support RTL layouts and enable German, Arabic, French, and Nordic languages, boosting global accessibility by 5x.
- Spearheaded the revamp of critical interfaces for the **Solargraf** tool, including the web quote, quote PDF, and project quote customization flows, utilizing React to build **reusable and responsive components**, increasing app engagement by 28%.
- Authored and maintained Solargraf API References page using Stoplight Elements, Swagger OpenAPI, and vanilla JavaScript, enhancing usability for 500+ developers integrating APIs.

Software Development Engineer- II, Vogo Automotives, *Bengaluru, India*   Jun 2021 – Apr 2023

- Led a frontend team of 4 engineers and devised a **JavaScript-Native Bridge** for hardware access (Camera, Bluetooth, and Location), enabling document upload, user verification, and vehicle lock features, improving app usability by 5x.
- Created **AWS S3 image upload** for KYC workflows with pre-signed URLs, adding recovery mechanisms to handle WebView termination on low-end devices.
- Introduced **JWT-based authentication**, replacing opaque tokens to enhance security and efficiency across 1M+ sessions monthly, with silent token refresh and refined Android-to-PWA communication.
- Enabled a **micro-frontend architecture with Webpack Module Federation**, integrating Bike Taxi PWA with Vogo, allowing seamless modular support for 4 interconnected apps across short and long-term services.
- Architected a **Web SDK** to integrate the Vogo with Chalo(India's No. 1 bus tracking app) ensuring cross-platform functionality.
- **Optimized API call** handling by implementing throttling and rate-limiting, reducing redundant backend requests by 35% and enhancing performance during high traffic loads.
- Addressed **PWA** enhancements using React & Redux, improving responsiveness. Built custom hooks and accelerated performance with lazy loading, code splitting, and a 40% reduction in bundle size.
- Enhanced testing and deployment via TestFlight and automated CI/CD workflows with GitHub Actions, running Jest and React Testing Library tests, and implementing A/B testing strategies, including integration testing, **reducing QA efforts** by 30%.

Software Engineer, Clinikk Hospitals and Health Care, *Bengaluru, India*   Dec 2018 – May 2021

- Engineered an **automated dashboard**, reducing processing time by 90% in patient support and financial transactions.
- Built modular **REST APIs** for products, invoicing, and customer services using NodeJS and ExpressJS, persisting data in SQL and MongoDB under a **microservice architecture**, utilized across 4 client-side apps.
- Collaborated the development of a customer-facing **Progressive Web App** (PWA) in React as a **founding team member**; empowered users to access health and financial services on mobile devices, achieving a 10x boost in user engagement.
- Constructed a **subscription auto-debit system** for LotusPay using **NodeJS and Kafka**, reducing drop rates by 35%.

Software Application Engineer, Graylinx (Senzopt) Technologies, *Bengaluru, India*   Jul 2017 – Apr 2018

- Integrated **NVD3 charts** and crafted IoT platform frontend, boosting efficiency by 30% thereby improving data visualization.

PROJECTS

- Orchestrated **a UNIX-based multiplayer game** using Python and gRPC, enabling real-time communication for 10+ players and covert channel simulation.
- Formulated a **Lyrics Search Engine** leveraging Elasticsearch and Sentence Transformers, enabling fast lexical, semantic, and vector searches across a 2-million-song Spotify dataset.
- **Fine-tuned CogVideo** on ASU's Sol supercomputer, reducing training time by 45% through multi-GPU optimization with DeepSpeed and Hugging Face Accelerate in Disney-style video generation.
- Designed a **distributed database system for smart buildings**, integrating MongoDB sharding, PostgreSQL replication, and WebSockets for real-time sensor monitoring.   Jan 2024 - Dec 2024