

Kishan Thangaraj

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SUMMARY

Results-driven Software Engineer with a strong foundation in full stack development, cloud technologies, and API integration. Passionate about building scalable, user-focused applications that improve performance and deliver measurable impact. Skilled in writing clean, efficient, and maintainable code while adapting quickly to emerging tools and frameworks. Proven ability to thrive in Agile, collaborative environments, contributing to innovative solutions that drive business growth and enhance user experience.

EXPERIENCE

Full Stack Developer

ExpertEase AI | Jan 2025 – Present, South Australia

- Built and maintained **high-performance frontends** using **React and Next.js**, integrated with **custom Node.js and Django/Python APIs**, **Shopify storefronts**, and **Dynamics 365/CRM systems** via **REST and GraphQL**, improving **data flow and customer experience**.
- Led **cloud migration from AWS to Azure**, optimizing **CDN and cost management**, and deploying **CI/CD pipelines** that reduced release cycles by **50%** while lowering expenses by **30%**.
- Architected and implemented tools for a **Retrieval-Augmented Generation (RAG) system**, enhancing **AI-driven knowledge retrieval and system scalability**.
- Enforced best practices in **code reviews, SEO, accessibility, and site performance**, ensuring maintainable and future-ready applications.

Software Developer Intern

Australian Institute of Machine Learning | Aug 2024 – Dec 2024, Adelaide

- **Deployed scalable APIs with FastAPI**, integrating them with **mobile frontends** to deliver **real-time, seamless user experiences**.
- Debugged and resolved **complex deployment and compatibility issues** across multi-cloud environments, ensuring **high availability and stable performance**.
- Developed a **disease classification model** using **Detectron2 (Meta)** on public datasets, achieving **91% accuracy**, and deployed it within a **fully functional Flutter mobile app**.
- Enhanced user interaction by connecting the app's **custom model to ChatGPT**, enabling a **conversational mode for disease insights and recommendations**.

Software Developer

Teem Consulting Ltd | Jul 2019 – Dec 2021, Dubai

- **Delivered** full-stack e-commerce solutions **with** secure payment integrations, React-based dashboards, and mobile-friendly designs, **enhancing user experience and engagement**.
- **Built and maintained** Java backend services and REST APIs **with database integration, supporting scalable and secure business applications**.
- **Developed** internal automation and reporting tools **that streamlined workflows and improved** team collaboration and productivity.

PROJECT

Bill-Splitting App (AWS Cloud | LangChain | React Native)

- Developed a scalable bill-splitting app for shared accommodations, enabling real-time utility consumption tracking, fair cost distribution, and integrated features such as push notifications, payment gateway, unauthorized access alerts, and issue reporting.

- Implemented LangChain agents for automated report generation and anomaly detection, leveraging a CSV agent to efficiently identify usage discrepancies.
- Architected a full AWS cloud stack with DynamoDB, Amplify, SNS, S3 Buckets, and Rekognition, ensuring scalability, reliability, and secure data processing.

CropSense – Intelligent Crop Monitoring App (AWS Cloud | FastAPI | Detectron | Flutter)

- Built a mobile app with Firebase/Auth0 authentication and JWT tokens, featuring real-time chat using Socket.io and WebSockets, integrated with ChatGPT for AI-driven conversational support.
- Implemented image classification with Transfer Learning (Swin Transformer) to detect and analyze crop health from user-uploaded images.
- Strengthened application and API security through data encryption, biometric authentication (fingerprint/face recognition), and secure storage using SecureStore, Keychain, and Keystore.

Electronic Voting System (React | Firebase | GCP)

- Developed a secure electronic voting system following Microsoft Secured by Design principles, implementing multi-factor authentication, encrypted data storage, and detailed user activity logging.
- Conducted penetration testing and security audits to ensure industry-standard compliance and protect against vulnerabilities.

EDUCATION

Master of Computer Science

The University of Adelaide, South Australia | Jul 2022 – Dec 2024

- Relevant Coursework: Advanced Algorithms, Cloud Computing, AI & Machine Learning (optional if you want keywords)

Bachelor of Technology – Information Technology

Anna University, Chennai, India | Aug 2015 – Jul 2019

- Relevant Coursework: Software Engineering, Database Systems, Web Development

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, HTML

Frontend: React, Next.js, Tailwind CSS, Performance & SEO Optimization, Accessibility Best Practices

Backend & APIs: Node.js, NestJS, REST, GraphQL, Serverless Architectures

Cloud & DevOps: Azure, AWS, Docker, CI/CD Pipelines

Integrations & Tools: Dynamics 365, CRMs, Payment Gateways, Custom E-commerce Workflows, Firebase, MongoDB, Real-Time Chat (WebSocket/Socket.io)

REFERENCES

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