

# KISHAN MENDON

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## PROFESSIONAL SUMMARY

Dedicated Full-Stack Software Engineer with nearly 5 years of combined experience in designing and delivering secure, scalable web applications and cross-platform solutions. Skilled at leveraging modern technologies such as Node.js with Express.js, NestJS, and PHP (Lumen) alongside robust databases like MongoDB, Firestore, and DynamoDB. Committed to industry best practices, including secure API design, effective caching strategies, and resilient cloud deployments on AWS and Google Cloud Platform. A proactive leader with a proven record of implementing agile methodologies and mentoring cross-functional teams to deliver high-quality, customer-focused solutions. Continuously drives innovation by staying current with emerging technologies and maintaining operational excellence.

## TECHNICAL SKILLS

- **Languages & Frameworks:** JavaScript, TypeScript, Node.js with Express.js, Angular, NestJS, PHP (Lumen)
- **Backend & Microservices:** REST APIs, Microservices, Serverless Architecture (AWS Lambda)
- **Databases:** MongoDB, Firestore/Firebase, DynamoDB, Redis (Caching)
- **Cloud & DevOps:** AWS (EC2, S3); Google Cloud Platform (Compute Engine, Cloud Storage, Google Maps, Pub/Sub)
- **Desktop Application Development:** Electron, Tauri
- **Payment Gateways:** Razorpay, Atom, Airwalex, CCAvenue
- **Messaging & Notifications:** Implemented messaging and notification solutions using Redis Bull for message queuing, along with OneSignal, email, and WhatsApp integration.
- **API Testing & Security:** Jest; secured APIs using Helmet, CORS, and additional Node.js security best practices (encryption, access control, threat mitigation)
- **Version Control & Project Management:** GitHub, GitLab, Bitbucket; Jira, Trello

## PROFESSIONAL EXPERIENCE

### CHIPSY IT SERVICES PVT LTD – Udupi, Karnataka, India

*Tech Expert – Senior Software Engineer | October 2020 – Present (4 years 5 months)*

- **Application Development:** Developed secure APIs using Node.js with Express.js, NestJS, and PHP (Lumen) to facilitate robust data exchange; designed and implemented microservices on AWS Lambda with DynamoDB for efficient serverless architectures; built scalable front-end solutions using Angular and TypeScript for seamless user experiences.
- **API & Security Engineering:** Developed and integrated secure APIs by implementing payload encryption and adhering to industry-standard security practices; secured APIs by leveraging Helmet, CORS, and additional Node.js security measures; utilized Jest for comprehensive API testing.
- **Performance & Integration:** Enhanced application performance through effective caching strategies using Redis; created database indexes to improve query performance; developed transactional database logic and leveraged Google Cloud Pub/Sub for dependable email notifications.
- **Cloud & Desktop Solutions:** Managed deployments on AWS (EC2, S3) and GCP (Compute Engine, Cloud Storage, Google Maps, Pub/Sub) to maintain high availability and scalability; developed cross-platform desktop applications using Electron and Tauri to deliver native-like experiences and offline functionality.
- **Team Leadership & Agile Management:** Led and mentored development teams using agile practices (daily stand-ups, sprint planning, retrospectives) via Jira and Trello; collaborated with stakeholders to define project scopes and deliver high-quality solutions on schedule.

### Selected Project Experience:

- **RBL Banking Services | Node.js, TypeScript, NestJS with Firestore, Next.js**
  - Contributed to core modules including Digital Savings Account, Women's Account, Go Digital Account, Credit Card Customer Onboarding, and Promo Code functionalities.
  - Developed transactional database logic and leveraged Google Cloud Pub/Sub for reliable email notifications.
  - Assisted in building a scalable microservices architecture.
  - Developed secure, optimized APIs using NestJS.

- Integrated multiple third-party banking APIs, including Finacle for account number generation, VKYC for customer verification, and APIs from UIDAI and PAN for identity validation.
- **Referral Job Search Web Application | Node.js, AWS Lambda, DynamoDB**
  - Built serverless microservices to power a job search platform with real-time data processing.
  - Developed robust, asynchronous APIs to manage high request volumes.
  - Created indexes in DynamoDB to enhance query performance.
- **Vitalbase Hospital Management HIMS System | Node.js, Angular, MongoDB**
  - Engineered a comprehensive HIMS application incorporating features from the Ayushman Bharat Digital Mission (ABDM) and NHCX for end-to-end healthcare management.
  - Integrated ABDM APIs and FHIR bundles to ensure system interoperability and regulatory compliance.
  - Designed a microservices architecture with secure APIs to safeguard patient data.
- **Shri Dharmasthala Online and Offline Room Booking Software | Node.js, Angular, React.js, MongoDB**
  - Led the development of a full-featured room booking and guest house management system, enabling seamless online and offline booking, allotment, and vacating processes.
  - Developed REST APIs and responsive front-end components using Angular and React.js to deliver a unified user experience.
  - Ensured real-time data synchronization between online and offline operations using MongoDB.
- **Mahe Connect App | Node.js, MongoDB, Angular**
  - Developed robust REST APIs to support a mobile application for online convocation booking and student registration.
  - Designed a secure, user-friendly admin dashboard for effective data management.
  - Managed email notifications using Redis Bull and implemented rate limiting to control booking requests.
- **Karnataka Bank Netbanking UI/UX | Angular**
  - Redesigned the netbanking user interface using Angular, enhancing usability without impacting existing functionalities.
- **Academic Management System for Mahe Bengaluru | Angular, Node.js, MongoDB**
  - Developed comprehensive portals for students and administrative staff to manage attendance, timetables, and feedback.
  - Engineered secure REST APIs with Node.js and MongoDB, incorporating Redis for API optimization.
  - Led the team in enforcing coding standards, optimizing API performance, and creating MongoDB indexes to improve query speed.

## UIPEP TECHNOLOGIES PVT LTD – Bengaluru, Karnataka, India

*Software Developer Intern | January 2020 – June 2020 (6 months)*

- Learned and applied Angular, Node.js, and MongoDB by developing a small-scale project to solidify foundational skills.
- Contributed to a live application by fixing bugs and implementing new features, ensuring continuous product improvement.
- Collaborated with senior developers during code reviews and team meetings to gain exposure to industry best practices and agile methodologies.
- Assisted in debugging and optimizing existing code, enhancing overall application performance and reliability.
- Developed technical documentation to support project development and maintenance.

## Selected Project Experience:

- **WRKED – Job Search Platform | Angular, Node.js, MongoDB**
  - Worked on WRKED, a web application enabling job seekers to search for opportunities while allowing employers to post job listings.
  - Fixed minor bugs and developed small REST APIs to support core functionalities.
  - Assisted in integrating APIs with the front end for smooth data flow and an enhanced user experience.
  - Collaborated with senior developers to enhance performance and maintain code quality.

## EDUCATION

**Manipal Institute of Technology, Manipal**

Master of Computer Application (MCA) | 2018 – 2020

**MGM College, Udupi**

Bachelor of Computer Application (BCA) | 2015 – 2018