

SHIVARATNAKUMAR PATIL

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SENIOR DEVELOPER

Results-driven Senior Developer with 8 years of experience, including 6 years specializing in web application development using modern frameworks such as Angular and Node.js with MongoDB, and 2 years in embedded and IoT software development. Demonstrated expertise in designing and deploying scalable solutions across the technology stack, leveraging front-end (Angular), back-end (Node.js, Java Spring, Python Django), and database technologies (MongoDB, PostgreSQL). Currently spearheading initiatives integrating AI tools into web applications to drive innovation, streamline user experiences, and unlock organizational value. Passionate about advancing AI adoption and seeking opportunities to lead technology transformation and deliver impactful solutions that empower business growth.

STRENGTHS AND EXPERTISE

- Web Application Development (Angular, Node.js, MongoDB, Java Spring, Python Django, PostgreSQL)
- AI Integration in Web Solutions
- Embedded and IoT Software Development
- Strategic Planning and Technology Innovation
- End-to-End Solution Architecture
- Cross-Functional Team Collaboration
- Agile Methodologies and Project Execution
- Client Relationship Management
- Effective Communication and Negotiation Skills
- Operations and Performance Optimization

PROFESSIONAL EXPERIENCE

Benekiva

February 2022 - Present

Senior Developer

- Key Responsibilities**
- Led end-to-end implementation of claim packet generation, sub-claims, and payment dashboard features using Angular and Node.js.
- Developed and optimized API integrations for multiple external clients (Equifax, Veritas, Prodigy, LFG), enabling seamless data exchange and improving workflow efficiency.
- Built complex dashboard queries and managed integration of claim intake, gateway, and job orchestration enhancements.
- Prepared dynamic datasets for Payee Setup rule boards, increasing accuracy and accessibility of payee information.
- Engineered configurable components for beneficiary (Bene) management, email templates, and notifications, enhancing system modularity.
- Refactored legacy codebase, resulting in improved maintainability, reduced bugs, and enhanced performance.
- Actively identified and resolved software defects, contributing to increased system reliability.
- Developed and maintained Action Panel rule boards with hands-on experience in MQL scripting.
- Implemented mockaroo schemas for efficient demo environment setup and streamlined testing workflows.
- Collaborated closely with cross-functional teams to deliver robust solutions for audit packets, API endpoints, beneficiary management, and auto-flow configuration.
- Documented technical standards and best practices for internal and client-facing integration projects.

- Developed and deployed multiple modern web applications using Angular, Java Spring MVC, Python Django, and PostgreSQL. Led front-end and back-end architecture with focus on scalability, modularity, and security.
- Delivered advanced API integrations (RESTful services, CRUD operations) and implemented secure login/authentication systems (JWT, CryptJS).
- Applied effective MVC/MVVM architectures for both web and Android applications, utilizing best practices in code structure and maintainability.
- Engineered responsive, dynamic UIs and dashboards with Bootstrap CSS, HTML5, D3.js, and media queries for optimal performance across devices.
- Built and optimized system modules for slot booking, network diagnostics, data extraction, and skill tracking – including complex layouts, recursive scheduling (CRON), and graphical analytic modules.
- Conducted thorough unit and integration testing using frameworks such as Jasmine and documented test strategies for robust release cycles.
- Managed database queries with a strong emphasis on SQL injection prevention and performance optimization.
- Led backend deployments on Apache Tomcat and Apache web server, ensuring enterprise-grade reliability and continuous integration.
- Released and automated installation packages (RPM files) for large-scale network diagnostic solutions.
- Oversaw version control and collaborative development through GitLab and SVN, upholding strict code quality standards.
- Implemented software for embedded and IoT systems using Embedded C, C++, and Python, including bootloader applications, digital I/O, and communication drivers (UART, SPI), manual and automated test environments, and protocol implementations (TDMA).
- Utilized Embedded C, Python, and Protocol Buffers for development; used IAR Embedded Workbench IDE and Thingsboard IoT platform/gateway.
- Implemented Service Checker Application in Python: fetched data from indoor/outdoor units using USR-WIFI232 serial converter with UART.
- Developed dashboard/control widgets on Thingsboard platform to visualize real-time service checker data from IoT gateway.
- Designed custom WiFi configuration for USR WIFI232 protocol for direct device communication.
- Built application layer software modules for indoor/outdoor unit control using protocol buffer technology, including forced cooling features.

TECHNOLOGIES AND TOOLS

Angular, Node.js, Java Spring MVC, Python Django, PostgreSQL, MongoDB, Embedded C/C++, Linux, GitLab, Advanced Rest Client, Apache Tomcat, CRON, Bootstrap, D3.js, Jasmine, Tera Term, Atmel Studio, Postman, Visual Studio Code, Adobe XD, Insomnia, Code Block, SVN, Git, Bit bucket, Cursor CLI and AI integrated code editor, JIRA, Tailwind CSS

PROJECT DOMAINS

Web Application Development, API Integration, Secure Login/Authentication, Data Analytics Dashboards, Skill Tracking, Network Diagnostics, Embedded Software Development, IoT Solutions

EDUCATION

KLS Gogte Institute of Technology, Belagavi
Computer Science and Engineering

June 2013 - July 2017

- **Academic Projects**
 - Carpooling – MEAN Stack Application
 - Developed web application using AngularJS, Node.js, MongoDB.
 - Designed and implemented GUI pages for user login and user profile management.
 - Integrated authentication using JSON Web Tokens (JWT) for secure login.
 - Built and tested database queries for CRUD operations including ride booking and cancellation.
 - Kalpavriksha – MEAN Stack Application
 - Developed user interfaces for login and user profile pages with AngularJS.
 - Applied best practices for modular, maintainable code.
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ADDITIONAL INFORMATION

- Languages: English, Kannada, Hindi
 - Certifications: TESTDOME certificate (Angular), Udemy certificate (MongoDB)
 - Awards:
 - Recognized as Best Performer in Product Support Team at Benekiva
 - Nominated for Boomy awards at Benekiva
 - Professional Development: Currently enrolled in:
 - Advanced DSA at Scaler
 - AI for Developers with Github Copilot, Cursor AI & ChatGPT
 - The complete oracle SQL certification course.
 - Cursor Course for AI leveraging
 - Microservices with Node.js (Udemy)
 - Devops course by Imran Teli
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REFERENCES

Available upon request.

DECLARATION

I hereby declare that the above information is accurate and valid to the best of my knowledge.