KALYANKUMAR KONDURU

Software Developer

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CAREER SUMMARY

Full-stack developer with over 3 years of experience building scalable web applications using JavaScript, Python, and Java, currently pursuing an MS in Computer Science at Purdue University Fort Wayne, specializing in AI-powered healthcare solutions and microservices architecture.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C/C++, TypeScript, SQL, HTML/CSS
Frameworks/Tools: React, Angular, Node.js, Spring Boot, MongoDB, PostgreSQL, AWS, Docker, Git
Specializations: Full Stack Development, RESTful APIs, Microservices, AI/ML Integration, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Developer Intern | **Medical Informatics Engineering** | **Fort Wayne, IN** 2025–Present

- Develop a context-aware semantic search engine for EHR documents using model context protocol, processing 10,000+ queries monthly across healthcare systems.
- Engineer Epic MCP server integration alongside Aidbox, reducing manual data entry by 75% through unified tool-calling functionality.
- Implement vector search with Bio-BERT embeddings in MongoDB Atlas, improving search accuracy from 70% to 92%.
- Create a React/TypeScript chatbot interface serving 200+ concurrent users with real-time document processing capabilities.
- Optimize PDF parsing pipeline to handle 50MB medical documents in under 10 seconds, achieving 5x performance improvement.
- Configure MCP tool-calling protocols to enable secure LLM interactions with healthcare data while maintaining HIPAA compliance.

Software Developer | **Accenture** | **Bangalore, IN** 2021–2023

- Architected enterprise-level Java Spring Boot applications, improving system reliability and reducing downtime by 30%.
- Built and deployed AngularJS/Node.js applications with PostgreSQL, serving 50,000+ daily users.
- Streamlined CI/CD pipelines using Jenkins and Docker, cutting deployment time by 40% and minimizing pre-production issues.
- Resolved 150+ critical production issues in Polarion/Windchill systems, maintaining detailed documentation in Confluence.
- Spearheaded migration of monolithic applications to microservices architecture, enhancing system modularity and maintainability.
- Mentored 4 junior developers on design patterns and code quality, decreasing code review cycles by 25%.

EDUCATION

MASTER'S DEGREE | Computer Science | Purdue University Fort Wayne 2024–Present
BACHELOR'S DEGREE | Computer Science | Anna University 2015–2019

PROJECTS

Orama—Real-Time AI System | GitHub | Python, YOLOv8, OpenCV

- Developed a YOLOv8-based object detection system, achieving 90% accuracy in adverse weather conditions.
- Reduced false positive rate by 35% through adaptive preprocessing algorithms.

Semantic Search Platform for Healthcare | GitHub | JavaScript, MongoDB, Bio-BERT

- Built MCP-powered search system indexing 100K+ medical documents with sub-second query response time.
- Integrated with 3 major EHR systems (Epic, Cerner, Aidbox) serving 500+ healthcare providers.

AWARDS

1st place | IEEE Hackathon winner (in collaboration with Purdue University Fort Wayne, PCCOE, and SPIT) | 2025