KALYANKUMAR KONDURU

Software Developer

(260) 221-7146 | kondurukalyankumar.dev@gmail.com | Fort Wayne, IN | LinkedIn | GitHub | Portfolio

CAREER SUMMARY

Full Stack Developer with over 3 years of experience designing and deploying scalable web applications using JavaScript, Python, and SQL. Currently pursuing a Master's in Computer Science at Purdue University Fort Wayne, with a focus on advanced software engineering principles. Passionate about building scalable systems and vibe coding.

TECHNICAL SKILLS

Programming & Web Development: C/C++, HTML/CSS, Java, JavaScript, Node.js, Python
Databases and Tools: Confluence, JIRA, MongoDB, PostgreSQL, MySQL
Frameworks, Cloud & Methodologies: React, Angular, Meteor, AWS, CI/CD, Git, Spring Boot

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER INTERN | Medical Informatics Engineering | Fort Wayne, IN Jun 2025 – Present

My role as an intern is to build a Context Aware Semantic Search Engine for EHR notes using Model Context Protocol where users and clinicians can upload documents, and ask LLM questions about PDFs or EHRs, and store information.

- Create a chatbot using Meteor with TypeScript and React components for a responsive frontend interface by leveraging MCP protocols to interact with the MCP server.
- Develop an MCP server for MongoDB Atlas instead of using Meteor.js built-in mini-Mongo for future scalability.
- Integrated MCP's tool-calling functionality to enable vector search and embeddings for fast, scalable semantic search of chunked notes.
- Parsed and chunked large PDFs and indexed them using Bio-BERT sentence-transformer embedding model and stored the embeddings in MongoDB Atlas for retrieval.
- Designed an MCP server for Aidbox EHR so that the LLM can talk to EHR via tools and can perform CRUD operations without needing to manually access the website.

SOFTWARE DEVELOPER | Accenture | Bangalore, IN Feb 2021 – Dec 2023

As a Software Developer, I built full-stack applications using Angular, SQL, and Node.js, and later transitioned to a project where I worked with Java, Polarion, and Windchill.

- Architected scalable backend systems with Java Spring Boot by translating Jira requirements into production-grade solutions, boosting system reliability and reducing downtime by 30%.
- Implemented a robust CI/CD pipeline integrating automated testing, shortening deployment cycles by 40%.
- Assisted users with issues encountered in Polarion and Windchill, documenting unique problems in Confluence for future reference.
- Developed and deployed applications using AngularJS, Node.js, PostgreSQL, and RESTful APIs, elevating delivery efficiency by 20%.
- Refactored code and design patterns to boost software performance by 10%.
- Partnered with DevOps teams to construct CI/CD processes that slashed pre-deployment issues by 20%.

EDUCATION

MASTER'S DEGREE | Computer Science | Purdue University Fort Wayne 2024 – 2025
BACHELOR'S DEGREE | Computer Science | Anna University 2015 – 2019

PROJECTS

Orama | Real-Time AI System
A real-time AI system using YOLOv8 and adaptive preprocessing for object detection and collision risk assessment in adverse weather.

Semantic Search Engine for EHRs | Medical Informatics Engineering
Built a context-aware semantic search system using MCP, enabling LLM-powered queries on EHR notes and PDFs with Bio BERT embeddings, MongoDB Atlas, and Aid box EHR integration.

AWARDS

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