

Rajan Paneru

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For over a decade, I've built a range of web systems, from the complex back-end code to the user-facing platforms. Now, as a Lead AI/ML Engineer, I work on making those systems smarter. I specialize in designing and building practical machine learning tools, like semantic search and custom LLMs, that turn company goals into real products.

Work Experience

Lead AI / ML Engineer, RANE NETWORK INC. | May 2025 - Present

- Work with leaders (CTO, Directors) to turn strategic goals into clear roadmaps for the engineering teams.
- Design and build AI solutions, turning project ideas into technical plans for developers and data scientists
- Lead a research project to create a smaller LLM that automates data tagging through content classification
- Develop and deploy AI-powered APIs and internal demo tools using FastAPI and Streamlit
- Guide and mentor data scientists and software developers, using my knowledge of our systems to solve problems

Lead Software Developer, RANE NETWORK INC. | Feb 2022 - Apr 2025

- Developed, maintained, and fixed issues in Django web applications, Falcon APIs, and Python-based tools
- Improved application stability by quickly finding and resolving production issues
- Worked closely with product teams to plan features and provide a technical perspective on project stories
- Managed projects from the initial idea through to the final launch
- Reviewed code to maintain quality and consistency across the team

Technical Lead / Senior Software Engineer, Tekvortex Pvt. Ltd. | Jun 2018 - Nov 2021

- Worked as a consultant for **RANE Network**, responsible for developing and maintaining their web platforms
- Improved code quality across the team by creating and implementing new coding standards
- Designed the system architecture and set up automated build-and-deploy (CI/CD) pipelines
- Analyzed project needs, proposed technical solutions, and broke down the work for the development team
- Helped grow the team by interviewing candidates and assisting with hiring decisions

Software Engineer, YoungInnovations Pvt. Ltd. | May 2017 - May 2018

- Developed web applications using Python, Django, and Flask
- Estimated project timelines, delegated tasks, and guided junior developers
- Mentored interns and helped the HR team with technical interviews

Web Developer, Capital Eye Pvt. Ltd. | Dec 2014 - Dec 2015

- Developed various web applications using PHP frameworks (CodeIgniter, Laravel) and NodeJS
- Took initiative by proposing and building the company's first prototype for a new Android mobile app
- Wrote back-end scripts to automatically generate videos from user images

Technical Skills

- **AI / ML:** LLMs (Generative AI, RAG, Model Distillation), Prompt Engineering, Semantic Search, MLOps
- **Programming & Frameworks:** Python, Streamlit, Django, FastAPI, Falcon, JavaScript, PHP
- **Databases & Search:** PostgreSQL, MySQL, Milvus (Vector DB), OpenSearch, Elasticsearch
- **Cloud & DevOps:** AWS (Lambda, ECS, EC2), Docker, CI/CD (Bitbucket), Git, Nginx, Gunicorn
- **Web Technologies:** VueJS, ElementUI, jQuery, HTML, CSS, JSON, Webpack
- **Tools & Methodologies:** Jira, Agile/Scrum, PyCharm, Postman, Linux/Unix Terminal

Education

- **The University of Adelaide** | Adelaide, SA | *Master of Computer Science*, Expected Dec 2025
- **Patan Multiple Campus** | Lalitpur, Nepal | *B.Sc. in Computer Science & Information Technology*, 2014