Kunal Kundu

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EXPERIENCE

Software Engineer, **(Redacted)**   Aug.'25 - Present
- Building an AI-native workspace for US local government departments.
- Created AI assistants for emails, research and data analysis.
- Created a crawler for multiple data sources (Google Drive, Gmail, Zendesk etc.) with support for partial updates.
- Setup K8s with AWS EKS for orchestrating GPU-native services.
- Made an OCR pipeline to parse TBs of documents (PDFs, spreadsheets etc.) to text for better RAG.

Software Engineer 2, **ImageKit**   Jul.'23 - Jul.'25
- Improved support for large uploads (50GB+) by streaming chunks to an S3-mounted filesystem.
- Designed a fair scheduler with intermediate checkpoints for cost-sensitive jobs.
- Built a scalable audit log system with Kafka streaming, Elasticsearch indexing, and AWS S3-based recovery.
- Integrated AI-powered image editing features for background removal, scene change, and captioning.
- Created a package implementing a multi-layered cache (in-memory, AWS S3 & MongoDB) for storing client data used across all core services reducing startup & response time.
- Added support for pre-transformations that let the user modify (compress, watermark, etc.) media files before uploading.

Software Engineer, **Verak (YC W21)**   Sep.'20 - Apr.'23
- First engineer. Hired and mentored the rest of our engineering team.
- Led the backend team to build internal tooling for selling commercial insurance.
- Built an internal CRM and rule engine for policies.
- Setup observability, CI/CD, infrastructure for all services.

Engineering Intern, **Mosaic Wellness**   Aug.'20 - Sep.'20

OPEN SOURCE

Apache Datafusion . ↗   Mar.'24 - Apr.'24
Worked on data format options and SQL date-time functions.

Netlify CLI · ↗   Jul.'21 - Feb.'23
Worked on Netlify's open-source CLI (40K+ weekly downloads).
Added new command flags and output formats for the dev server and env management.
Fixed bugs affecting redirects and deployment workflows.

PROJECTS

nearest-neighbors	Implementation of foundational k-NN search algorithms from research papers.	⌂
jsonpath-q	An interpreter for JSONPath Query Expressions (RFC 9535).	⌂

TECHNICAL SKILLS

Programming Languages	JavaScript, Python, Go, Rust
Backend	MongoDB, PostgreSQL, Redis, Node.js, Express
Frontend	React, Next.js, TailwindCSS
Infrastructure	AWS, Terraform, Docker, Kubernetes, Helm

EDUCATION

National Institute of Technology, Patna
Integrated Masters of Science in Mathematics   2024