

# Kunal Kundu

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## EXPERIENCE

<i>Software Engineer, (Redacted)</i>	Aug.'25 - Present
<ul style="list-style-type: none"><li>• Building an AI-native workspace for US local government departments.</li><li>• Created AI assistants for emails, research and data analysis.</li><li>• Created a crawler for multiple data sources (Google Drive, Gmail, Zendesk etc.) with support for partial updates.</li><li>• Setup K8s with AWS EKS for orchestrating GPU-native services.</li><li>• Made an OCR pipeline to parse TBs of documents (PDFs, spreadsheets etc.) to text for better RAG.</li></ul>	
<i>Software Engineer 2, ImageKit</i>	Jul.'23 - Jul.'25
<ul style="list-style-type: none"><li>• Improving support for large uploads (50GB+) by streaming chunks to an S3-mounted filesystem.</li><li>• Designed a fair scheduler with intermediate checkpoints for cost-sensitive jobs.</li><li>• Built a scalable audit log system with Kafka streaming, Elasticsearch indexing, and AWS S3-based recovery.</li><li>• Integrated AI-powered image editing features for background removal, scene change, and captioning.</li><li>• Created a package implementing a multi-layered cache (in-memory, AWS S3 &amp; MongoDB) for storing client data used across all core services reducing startup &amp; response time.</li><li>• Added support for pre-transformations that let the user modify (compress, watermark, etc.) media files before uploading.</li></ul>	
<i>Software Engineer, Verak (YC W21)</i>	Sep.'20 - Apr.'23
<ul style="list-style-type: none"><li>• First engineer. Hired and mentored the rest of our engineering team.</li><li>• Led the backend team to build internal tooling for selling commercial insurance.</li><li>• Built an internal CRM and rule engine for policies.</li><li>• Setup observability, CI/CD, infrastructure for all services.</li></ul>	
<i>Engineering Intern, Mosaic Wellness</i>	Aug.'20 - Sep.'20

## OPEN SOURCE

<b>Apache Datafusion</b> ·	Mar.'24 - Apr.'24
Worked on data format options and SQL date-time functions.	
<b>Netlify CLI</b> ·	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

<b>nearest-neighbors</b>	Implementation of foundational k-NN search algorithms from research papers.	
<b>jsonpath-q</b>	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

<b>National Institute of Technology, Patna</b>	2024
Integrated Masters of Science in Mathematics	