

Kunal Panigrahi

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TECHNICAL SKILLS

Relevant Coursework: Data Structures & Algorithms, Database Management System, Operating System, Object Oriented Programming, Computer Networking, Cloud Computing
Languages: C/C++, Java, JavaScript, Python, Kotlin, Dart, HTML/CSS, SQL
Databases: MySQL, MongoDB, PostgreSQL, Redis, Google Firebase
Frameworks: Node.js, Express.js, React, Next.js, Numpy, Pandas, OpenCV, TensorFlow, Flask, Scikit-learn
Developer Tools: Git, Docker, Kubernetes, Unix, Google Cloud Platform, Postman, JMeter, OWASP ZAP, Burp Suite

EXPERIENCE

Project Intern May 2023 – July 2023
Centre For Development Of Telematics New Delhi, India

- Architected a **Digital Signature Certificate** system using **Java**, **Spring**, and **JNI**, ensuring secure document signing and verification; optimized system performance, increasing user satisfaction by **30%** and reducing error rates by **25%**.
- Engineered a seamless integration of **IText** libraries and **REST API** to streamline the **real-time updating of PDF documents**, leading to a **40%** increase in operational efficiency and enhanced data integrity.
- Conducted comprehensive security testing and vulnerability assessment utilizing **JMeter**, **Burp Suite**, and **OWASP ZAP**, identifying **15+ critical vulnerabilities** to enhance system security and protection.

PROJECTS

LinkList | *HTML, Tailwind CSS, JavaScript, Next.js, MongoDB, GCP, Vercel* [Demo](#) | [Source Code](#)

- Developed a fully customizable social media reference website using **Next.js**, improving interaction rates by **30%**.
- Optimized data handling with **MongoDB**, reducing retrieval times by **25%**.
- Integrated **Google OAuth** via **GCP**, securing **50+** accounts and boosting login efficiency by **30%**.
- Streamlined application deployment on **Vercel** utilizing automated **CI/CD** pipelines for enhanced scalability.

Travigo | *EJS, MongoDB, Node.js, Express.js, Cloudinary, Mapbox, TensorFlow, Flask* [Demo](#) | [Source Code](#)

- Engineered a scalable, real-time collaborative travel web application using **Node.js** and **Express.js**
- Managed high-traffic listings using **MongoDB**, effectively handling up to **100 CRUD** requests per second.
- Integrated an **NLP** chatbot powered by **TensorFlow**, achieving **85%** query resolution accuracy.
- Implemented a recommendation system for hotels and solo trip listings, inspired by **Travigo** and **Airbnb**

Notionistic | *TypeScript, Gemini Pro API, Langchain, Twilio, Notion API, MongoDB* [Source Code](#)

- Built a **Twilio WhatsApp Bot** integrated with **Gemini Pro API** to auto-generate Notion pages, increasing user productivity by **40%**.
- Implemented real-time **Notion API** integration for seamless user note synchronization.

EDUCATION

Kalinga Institute of Industrial Technology Bhubaneswar, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 9.0 July 2021 – July 2025

POSITION OF RESPONSIBILITY

Content Writer Jan 2023 – Present
IoT Lab, KIIT Bhubaneswar, India

- Authored **10+** articles and blog posts for **IoT Lab's website**, collaborating with **5 team members** to create strategic content, aligning with lab objectives and reader preferences **80%** of the time.

ACHIEVEMENTS

- Ranked **55** out of **8,500+** participants in GeeksforGeeks Institute Rankings.
- Solved over **600+** problems across platforms like LeetCode and GeeksforGeeks.
- 3-star** rating on **CodeChef** (Max Rating: 1648, Ranked 14th in Institute)
- Knight** title on **LeetCode** (Max Rating: 1874, Top 5.17% globally)