Krishna Kumar

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Experience

DRDO R&DE (Engrs)   Nov '23 – Mar '24
Research Intern   *Pune/Remote*
- Developed secure peer-to-peer communication protocol using Kyber, a post-quantum cryptography algorithm.
- Implemented AES-256 encryption for data confidentiality.
- Contributed to data integrity verification through Dilithium2 signatures.

ENITIATE   Jun '23 – Nov '23
Founder's Office Tech Intern   *Remote*
- Managed team of 5 people, coordinated tasks, and ensured project progress.
- Optimized GCP development pipeline with GitHub webhooks.
- Integrated AWS services for secure backend access and implemented CloudFront for efficient data caching.

SKILLERATE   Mar '23 – Apr '23
Back-End Developer Intern   *Remote*
- Developed a critical module for a live Learning Management System (LMS), optimizing user workflow.
- Collaborated with the Frontend Team to enhance the LMS user interface, improving user experience
- Led efforts to refine and improve the admin panel, enhancing system manageability.

MAUKA EDUCATION   Jul '22 – Aug '22
Back-End Developer Intern   *Remote*
- Designed secure login/register form and improved spider chart for progress visualization.
- Enhanced UI responsiveness and upgraded APIs.

MICROSOFT LEARN STUDENT AMBASSADOR, KIIT CHAPTER   Jan '22 – Present
Full Stack Developer
- Organized tech events, hosted workshops, and developed Stocks Dashboard Site.
- Collaborated with ambassadors to promote 'Tech for All' through events and resources.

Projects

Title Generation From Human to Human Conversation | *PyTorch* | Jan '24
- Oversaw data preprocessing pipeline for conversational data, ensuring high-quality input.
- Designed and implemented a PyTorch Seq2Seq model for title generation, contributing to project success.

Kryptic Hunt | *Next.js, Tailwind, Next Auth* | Dec '23
- Built a Kryptic hunt game using Next.js, enabling level progression and leaderboard competition.
- Enhanced user engagement with dynamic level advancement and real-time leaderboard updates.

KTF Backend | *Express.js, Firebase, TypeScript* | May '22
- Developed a backend for event ticketing, integrating Firebase authentication and Razorpay payments.
- Implemented Google sign-up, coupon codes, and multiple payment methods.

Public APIs Site | *Next.js, React.js, Chakra-UI* | Jul '21
- Developed website for discovering public APIs with a user-friendly interface.
- Implemented search function by category or keyword.

Skills

Languages: JavaScript, TypeScript, Golang, Java
Tools: VS Code, AWS, GCP, Figma, Git, Redis, Terraform
Frameworks: React, Next.js, Express.js, Gin, PyTorch, Cobra cli

Education

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY   2021 − 2025
B. Tech in Computer Science and Engineering, CGPA 7.45/10   *Bhubaneswar, Odisha*