Pranay Gupta
Software Development Engineer

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GitHub
LinkedIn
Portfolio

SKILLS

Programming Languages	Java, Javascript, Typescript, Python, Shell Scripting
Tools & Platforms	Git, GitHub, Vercel, Figma, Postman, Docker, Linux, AWS, Azure
Frameworks & Libraries	React.js, Next.js, Node.js, MongoDB, React Native, Tailwind CSS, Material UI

WORK EXPERIENCE

IT Engineer - Software   Jan 2024 — Present
Keysight Technologies   *Gurugram*

- Developed and enhanced the Keysight Support Portal by utilizing **Lightning Web Components** & **Apex Classes** to improve overall functionality and efficiency, ensuring a better user experience.
- Collaborated with the team in an **Agile environment** to implement new features and fix bugs on the portal dashboard.
- Utilized Copado **as a DevOps platform** to automate and optimize the development and deployment processes for the support portal, ensuring seamless and efficient updates and enhancements.
- Implemented an **MVP version feature** on an internal search platform using **Retrieval-Augmented Generation** to generate concise summaries of search queries, improving user experience. Deployed the backend service on **AWS Lambda**, ensuring scalability and efficient processing without the need for users to review individual links.

Software Development Intern   Apr 2023 — Dec 2023
ProPeers   *New Delhi*

- Built, deployed, and scaled ProPeers website using **Next.js** and **TypeScript**, achieving **80,000+ daily active users** and optimizing load time to **0.2 seconds** via Vercel and AWS.
- Automated deployment processes using **Shell scripts** on **AWS Linux servers**, enhancing system performance and reliability thus reducing manual intervention.
- Set up **cron jobs** for automated background tasks using **Python**, and implemented server monitoring, logging, and error-handling strategies to **minimize downtime** and improve system reliability.
- Optimized API performance, **increasing response speed by 35x** with a caching system powered by **Redis**. Implemented a robust **Redis-based queue system** to handle tasks such as sending emails and push notifications.

Full Stack Development Intern   June 2022 — Sept 2022
Gumlet   *Singapore*

- Developed and deployed an MVP model for an Ed-Tech platform, showcasing expertise in full-stack development with **React.js**, **Node.js**, and **MongoDB** for efficient data storage and reliability.
- Deployed the application on **AWS services**, utilizing **EC2 instances** for scalable hosting and load balancing, and S3 for secure and cost-effective storage of static assets, such as images and documents.

PROJECTS

CodeHelp   Nov 2022 — Jan 2023
- Developed a learning platform CodeHelp using **Next.js** and **Tailwind CSS**, and managed content with **Strapi CMS**.
- Deployed the platform on **AWS EC2 and CloudFront**, utilizing **Linux for server management** and **Shell scripting** to automate deployment processes, ensuring fast and reliable delivery to over **120k+ monthly visitors**.
- Developed an **online compiler** for **C, C++, Java, and Python programs**, utilizing **Dockerized containers** to create isolated execution environments on **AWS Linux instances**.

Dar Al Marefa   Aug 2022
- Developed a content-driven website for a Dubai-based school with **dynamic pages**, **responsive design**, and **Next.js** for server-side rendering and optimization. Utilized **Tailwind CSS** for styling and used **Strapi** as a headless CMS.
- Deployed the website using **Vercel** for fast and reliable delivery worldwide, leveraging its global CDN network.
- Successfully implemented **SEO best practices**, resulting in Google search indexing and improved visibility.

EDUCATION

Asansol Engineering College   July 2020 — June 2024
Bachelor of Technology in Information Technology — 9.24 CGPA   *Asansol, West Bengal*
Coursework: Algorithms and Data Structures, Operating System, Database Management Systems, Computer Networks.

Loyola School, Taldanga   April 2018 — April 2020
Senior Secondary — 82.3%   *Dhanbad, Jharkhand*

ACTIVITIES

Project Admin at Winter Of Code (WOC) by IIIT Kalyani	Nov 2021 — Jan 2022
Student Mentor at Script Winter of Code	Nov 2021 — Mar 2022