

Sarthak Dobriyal

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EXPERIENCE

Fullstack Engineer

Oct 2023 – Aug 2024

Ionio

Delaware, US (Remote)

- Implemented a comprehensive **SaaS** application using the **Postgresql, Express.js, React.js, Node.js** stack, resulting in a 50% increase in system efficiency and performance metrics
- Enhanced user experience by integrating **Stripe** for **credit-based payment** systems, leading to a 30% increase in premium feature activation
- Managed file uploads to **AWS S3 buckets**, ensuring secure **storage** and scalability for over 1000 daily user interactions
- Implemented **Bull MQ** for message queuing, streamlining data injection and reducing processing time by 60%
- Optimized system performance by incorporating **Redis caching**, reducing dashboard load times **from 5 seconds to 1 second**
- Deployed the application on **AWS EC2** using **Docker**, saving up to five hours per deployment cycle

Full Stack Developer Intern

Jul 2023 – Sep 2024

Skandashield

Remote

- Engineered a high-performance, full-stack SaaS platform for web vulnerability scanning, leveraging **Django, React**, and **PostgreSQL** to enhance cybersecurity measures
- Optimized resource utilization by implementing asynchronous scanning with **Celery** and automated scheduling via **Celery Beat**, resulting in a 40% improvement in scan efficiency
- Designed and implemented a **scalable multi-tenancy architecture** using a semi-isolated approach, enabling secure data separation **for multiple clients** and improving system flexibility
- Enhanced security and user management by developing a comprehensive **role-based access control system**, ensuring precise permission allocation for diverse user types
- Orchestrated seamless deployment of the application to production environment on **AWS Ubuntu EC2**, demonstrating proficiency in cloud infrastructure management
- Spearheaded backend development for a **Unity3D** game, utilizing **Django, Django Rest Framework** and **PostgreSQL** to create a robust and scalable server architecture
- Optimized game backend performance by deploying on **AWS EC2** with **Nginx** for load balancing, resulting in a 30% reduction in server response time and improved scalability

PROJECTS

reKurd - Social Media Platform for Musicians

Ongoing

<https://rekurd.vercel.app/>

Personal Project

- Architected and developed a full-stack social media application using **Next.js 15 RC**, **PostgreSQL**, and **Prisma ORM**, showcasing proficiency in modern web development frameworks and database management
- Implemented real-time features such as live streaming and music rooms using **Socket.IO**, demonstrating advanced knowledge of websocket technology and real-time communication protocols
- Engineered complex UI components with **infinite scrolling** and **optimistic updates** for likes, comments, and connection requests, leveraging **TanStack Query** for efficient state management and API interactions
- Integrated an **AI-powered music chatbot** to assist users with creative blocks, showcasing ability to incorporate cutting-edge AI technologies into web applications
- Developed the application as a **Progressive Web App (PWA)** with **TypeScript**, ensuring cross-platform compatibility and showcasing expertise in type-safe programming and modern web standards

T-Shirt Designer with AI-Powered Design Generation

Feb 2023 – Apr 2023

<https://srthk-tee.vercel.app/>

Personal Project

- Engineered an interactive web application using **ReactJS** and **Tailwind CSS**, featuring a customizable 3D t-shirt model powered by **ThreeJS**, showcasing advanced front-end development textbf
- Integrated **AI-powered design generation** utilizing **OpenAI's DALL-E API**, enabling users to create unique t-shirt designs through natural language prompts
- Developed a robust backend with **Express.js**, facilitating seamless communication between the front-end and AI services, demonstrating full-stack development capabilities

- Implemented efficient state management using **Valtio**, ensuring smooth user interactions and real-time updates to the 3D model
- Created an intuitive image upload functionality, allowing users to apply custom designs and logos to the 3D t-shirt model

EDUCATION

Graphic Era Hill University <i>Bachelor of Technology in Computer Science, GPA: 8.1</i>	Dehradun, India <i>Jun. 2023</i>
Grace Academy <i>Intermediate Certificate, GPA: 8.4</i>	Dehradun, India <i>Mar. 2019</i>
Grace Academy <i>Matriculate, GPA: 8.6</i>	Dehradun, India <i>Mar. 2017</i>

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL (Postgres), Java, HTML/CSS
Frameworks: React, Next.js, Express.js, Node.js, Django, Prisma ORM, Flask
Developer Tools: Git, Docker, AWS (EC2, S3), Stripe, Redis, Bull MQ, Celery, Nginx, WebSockets (Socket.IO)
Cloud/DevOps: AWS (EC2, S3, Ubuntu), Docker, Vercel, DigitalOcean, GitHub Actions
Libraries/Technologies: Tailwind CSS, Three.js, AI/ML (OpenAI DALL-E API), TanStack Query, Valtio, Celery Beat, Progressive Web Apps (PWA)
Version Control/CI: Git, GitHub Actions
Database Technologies: PostgreSQL, Redis, Prisma ORM
Other Skills: Real-time features (live streaming, chat), Infinite Scrolling, Optimistic Updates, Role-based Access Control, Multi-tenancy Architecture