

Sabyasachi Patra

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SUMMARY

Highly enthusiastic and motivated learner passionate about backend development and DevOps. Eager to deepen my expertise in building scalable, reliable serverless backends and automating cloud infrastructure. Hands-on with Cloudflare Workers and Pages, and always seeking new opportunities to master modern backend technologies and DevOps best practices.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript

Backend: Node.js, Express.js, REST APIs, JWT, Zod

Frontend: React, Tailwind CSS, Recoil

Database: PostgreSQL, MongoDB

ORM: Prisma, Prisma Accelerate (connection pooling for PostgreSQL)

Cloud & DevOps: Azure, Docker, Amazon EC2, Amazon S3, Amazon RDS

Serverless & Edge: Cloudflare Workers, Cloudflare Pages, KV Storage

Tools & Utilities: Git, GitHub, Dotenv, Prisma Migrations, Postman, Monorepo

EXPERIENCE

Microsoft Azure Internship

July 2024 – August 2024

- Worked as an intern at Ingenious-Tech World, gaining hands-on experience with core Azure services like Virtual Machines, Storage, Databases, and more.
- Deployed applications on an autoscaling cloud architecture using Azure services.
- Utilized Azure tools such as resource groups, virtual machines, virtual networks, subnets, load balancers, application gateways, domain names, and DNS to optimize cloud infrastructure.
- Gained proficiency in the configuration and management of cloud environments, laying a strong foundation for cloud computing career opportunities.
- Skills: Azure, Virtual Machines, Load Balancers, DNS, Cloud Architecture, Networking, DevOps

PROJECTS

TypeScript Todo - Express + TypeScript + Prisma + PostgreSQL

[GitHub](#)

- Developed a backend API using **Express.js**, **TypeScript**, **Prisma**, and **PostgreSQL** to manage todos.
- Implemented authentication with **JWT**, ensuring secure user login and CRUD operations.
- Used **TypeScript** for static typing and enhanced maintainability.
- Incorporated **Prisma ORM** with **PostgreSQL** for robust, structured database management.
- Integrated **Zod** for advanced input validation.
- Used **Dotenv** for environment variable management.
- Enabled asynchronous database operations for a smoother and faster user experience.
- **Skills:** TypeScript, Express.js, Prisma, PostgreSQL, JWT, Zod, REST APIs, Dotenv

Cloudflare URL Shortener (Serverless Backend)

[GitHub](#)

- Developed a **serverless URL shortener** using **Cloudflare Workers**.
- Built a **POST endpoint** for generating short URLs and used **Cloudflare KV Storage** for data storage.
- Implemented a redirection service for short URLs using Cloudflare's edge network.
- Designed the solution as a stateless, serverless application for scalability.
- Handled errors like invalid URLs and missing shortcodes with appropriate error messages.
- Achieved instant global scalability using Cloudflare's edge network.
- Leveraged Cloudflare KV for fast, distributed data retrieval.
- Utilized a cost-efficient serverless model.
- Deployed the project directly onto Cloudflare.
- **Skills:** Cloudflare Workers, Serverless Architecture, Cloudflare KV, HTTP, Routing, REST APIs

EDUCATION

Silicon University <i>Bachelors of Technology in Computer Science</i>	Bhubaneswar, Odisha <i>Nov. 2022 – Current</i>
St Mary’s School <i>Higher Secondary Education (Science)</i>	Barbil, Odisha <i>Jun. 2019 – Aug. 2021</i>
St Mary’s School <i>Secondary School Education</i>	Barbil, Odisha <i>Mar. 2018 – May 2019</i>

ACHIEVEMENTS

Secured 4th place in Ideathon during SparkUp Summit 2024, organized by the Development Cell at Silicon University, held from 29th Nov to 1st Dec.