

BARUN MANDAL

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PROFESSIONAL SUMMARY

Full-Stack Developer with expertise in React, FastAPI, Node.js, and AWS. Passionate about building scalable applications and optimizing cloud infrastructure. Skilled in backend engineering, AI/ML integration and automation. Flexible in API development, and system optimization to improve performance and efficiency.

SKILLS

Programming language: C, C++, JavaScript, TypeScript, Python, Java

Database: MySQL, MongoDB, PostgreSQL, Redis Caching

Framework / library: Express, React, Fast API, Next.js, Tailwind CSS

Cloud & DevOps: AWS, CI/CD, Docker, GitHub Actions

Miscellaneous: Git, Terraform, Salesforce

EXPERIENCE

1. Associate Full-Stack Developer | PMsquare Nepal, Kathmandu

Sep 2024 – Present

- Worked on the fronted section of project supply chain management using React & TanStack Query
- Gained insight into Tokenization, Prompt Engineering, Vectorization, Bedrock Agent

2. Backend Developer Intern | PMsquare Nepal, Kathmandu

Jun 2024 – Aug 2024

- Configured AWS services (EC2, SQS, Lambda, API Gateway, Cognito, VPC) to acquired hands-on experience with their configurations.
- Build the slack bot integrated in slack workspace using bolt framework deployed to lambda.
- Refactored frontend components in React, reducing load time and logic to accommodate updated API structures created using FastAPI & SQLAlchemy.

3. Node.js Freelancer

Mar 2023 – Feb 2024

- Developed TypeScript code for robust applications and implemented Redis Serialization for efficient data storage and retrieval

PROJECTS

Hospital Management System

- Built a system for locating hospitals and doctors near patients and managing many more features digitally using Node, Express, SQL and more

Real Estate Mediator

- Application, for land owner and buyer can connect easily, fully implemented in backend side using Express, Sequelize ORM, JWT Verification & RDMS.

Real-Time Chat Application

- Developed backend system using Socket IO library, Typescript and Express.

AutoApply

- Designed an automated job application system that loops a CV/Resume to multiple job opportunities, increasing application efficiency.

EDUCATION

IOE-ERC, Dharan

Bachelor in Computer Engineering | Oct 2019 – Apr 2024