# Dwij Patel *Associate Software Engineer*

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## PROFESSIONAL SUMMARY

Versatile Full Stack Developer with **3 years of experience, including 2.5 years of freelance work and 6 months at a USA-based startup.** Adept at designing and deploying full-fledged web applications with a deep understanding of the entire development lifecycle. Skilled in:

- Leveraging **AWS cloud services** and holding an **AWS Solutions Architect certification** to create scalable and secure infrastructures, while utilizing orchestration tools to streamline deployment and manage complex environments efficiently.
- Developing dynamic backend systems using **Python** and **Django**, with robust API development using **Django REST Framework**, alongside creating interactive and responsive user interfaces with **React JS** for seamless user experiences.
- Implementing server-side logic and APIs with **Node.js**, integrating with **MongoDB for NoSQL** solutions and **SQL databases for structured data**, and ensuring continuous integration and deployment through tools like **CircleCI, AWS CodePipeline, and GitHub Actions** to enhance development workflows.
- Proficient in API testing and documentation using **Postman and Swagger**, ensuring reliable and well-documented endpoints, and experienced in **PHP development with Laravel, CodeIgniter, and Core PHP** for building efficient and maintainable web applications.
- Currently enhancing skills in Data Engineering and ETL tools, including **Hadoop, Kafka, PySpark, AWS Glue, Snowflake, and Snowpark**, while working effectively in **Agile environments**, contributing to sprints, and collaborating with cross-functional teams to deliver high-quality software.

A proactive learner and problem solver, committed to staying updated with the latest technologies and best practices to drive innovation and project success, with a strong foundation in both front-end and back-end development dedicated to delivering comprehensive solutions and contributing to team excellence.

## Projects

**Timesheet Management System**
*Technman Consulting (Nov 2023 - Present)*
- Served as the Project Manager for the Timesheet Management System project at Technman Consulting.
- Led the development and deployment of the system, utilizing the MERN (MongoDB, Express.js, React.js, Node.js) stack for comprehensive functionality.
- Deployed the application on AWS using Docker containers, ensuring scalability and efficient resource management.
- Implemented NGINX as a reverse proxy and utilized Certbot for SSL certificate management, ensuring secure communication and domain protection.
- Implemented programmatic backup solutions for MongoDB, storing backups on AWS S3 within Docker containers for data integrity and disaster recovery.
- Collaborated with cross-functional teams to ensure project milestones were met and delivered a high-quality, user-friendly application within the specified timeline.

**Vendor Management System**
*Technman Consulting (Nov 2023 - Present)*
- Implemented backend functionalities using Python, Django, and Django REST Framework to handle vendor data and interactions.
- Integrated authentication and authorization features to ensure secure access and data protection.
- Utilized AWS services for hosting and deployment, leveraging Docker containers for scalability and resource optimization.

**Serverless Architecture for Telus Health**

*Technman Consulting (Freelance Jan 2023 - Jun 2023)*
- Contributed as a Senior Node.js Developer on a serverless architecture project for Telus Health.
- Utilized AWS SAM, Lambda functions, and DynamoDB to develop and maintain efficient and scalable backend services.
- Supported a project with Disney, gaining exposure to Snowflake and enhancing data engineering skills.
- Engaged in Agile development processes, contributing to sprint planning and execution.

**Project Manager for AAK Telescience**

*Technman Consulting (Freelance Jul 2023 - Dec 2023)*
- Led the development team as Project Manager for AAK Telescience, overseeing the creation of chat systems and timesheet tracker applications.
- Implemented backend solutions using Python and Django, ensuring robustness and scalability.
- Collaborated with cross-functional teams to meet project milestones and deliver high-quality software within Agile methodologies.
- Managed API development and integration, utilizing Postman and Swagger for testing and documentation.

**AI Minds by IIT Kanpur Quiz Exam App**

*RightSol (Freelance Sep2023 - Nov 2023)*
- Served as a Backend (Node.js, MongoDB) Developer at RightSol for the AIMinds Quiz Exam App.
- Collaborated on the development of a pioneering initiative by IIT Kanpur, aimed at fostering AI readiness among school children from classes 4 to 10.
- Contributed to the backend architecture of the application, ensuring seamless functionality and efficient data management for a nationwide quiz competition.

## Skills

**Programming Languages**
Python, JavaScript (Node.js), PHP

**Backend Development**
Django, Django REST Framework, Express.js, PHP Laravel, PHP Codeigniter

**Frontend Development**
React JS, HTML, CSS

**Database Management**
MongoDB, DynamoDB, SQL (MySQL, PostgreSQL)

**Cloud Services**
AWS (AWS Solutions Architect Certified), GCP, Ansible, Terraform, Docker

**CI/CD Tools**
CircleCI, GitHub Actions, AWS CodePipeline

**API Testing and Documentation**
Postman, Swagger

**Version Control**
Git, GitHub

## Certificates

**AWS Solution Architect**
By Amazon Web Services

**Exploratory Data Analysis for Machine Learning**
By IBM

**HTML, CSS, and Javascript for Web Developers**
By Johns Hopkins University

**Algorithmic Thinking**
By Rice University