

Pradhyuman Yadav

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EDUCATION

George Washington University

MS in Computer Science (GPA: 3.8)

Washington, DC

August 2023 - May 2025

- Relevant Coursework: Data Structures, Algorithm, Machine Learning, Computer Vision, Cloud Computing.

Manipal Institute of Technology

Manipal, India

BTech in Electrical and Electronics Engineering (GPA: 3.4)

August 2018 - May 2022

- Organizations: Grew the Manipal Information Security Team by 30% via 12 workshops and 4 campus-wide campaigns; as Vice President, directed a 50-member software org to host coding boot camps (React, Agile) and deliver 10+ open source projects with 3 global partners, cutting workflows by 15%.

WORK EXPERIENCE

CodeAdvantage

Coding Instructor

Washington, DC

January 2025 – Present

- Introduced 150+ elementary students to programming and computational thinking through project-based learning.

Optum

Delhi, India

Software Engineer

July 2022 - August 2023

- Increased data throughput by 35% and reliability by 25% by spearheading the development of a microservices architecture for a high-performance streaming data application.
- Enhanced system capacity to handle 50% more concurrent users and cut server response times by collaborating with cross-functional teams to implement scalable APIs using Spring Boot and Quarkus frameworks.
- Minimized analysis time by delivering a high-availability data visualization solution using Flask, React, PostgreSQL, and Docker.
- Reduced operational delay by 40% by engaging with stakeholders to revamp database performance and improve data pipeline reliability.

PROJECTS

Personal Website (<https://theprk.in>)

January 2025 - Present

- Increased deployment efficiency and reduced build time by 40% by designing and deploying a responsive portfolio using Next.js and Tailwind CSS, achieving 99.9% uptime via Docker containerization and Jenkins-driven CI/CD pipelines.

Video Streaming Platform (github.com/pradhyuman-yadav/shadowveil)

October 2024 - Present

- Developed a full-stack video streaming platform, enabling video uploading, processing, streaming, and user management using Next.js (frontend) and a modular backend architecture, improving content delivery efficiency and worked on docker and hosting on AWS (S3, EC2, RDS).

Trading with ML (github.com/pradhyuman-yadav/trading-script)

December 2022 - January 2025

- Achieved 20% portfolio growth and 85% trend prediction accuracy by building an ML-driven trading platform with Backtrader, utilizing real-time APIs and optimized data pipelines.

JobMatch Automator

June 2024 - July 2024

- Accelerated application process by 80% by automating job data collection from 5+ job boards using Python/Selenium and integrating with Discord webhooks.

LEADERSHIP EXPERIENCE OR VOLUNTEER

Indian Scientific Education & Technology Foundation (ISETF)

Volunteer

Lucknow, India

January 2020 – July 2020

- Deployed remote education systems for underprivileged communities, improving digital literacy access.

SKILLS

Languages: Python, Java, JavaScript (ES6+), Node.js, C++, Go

Frontend: React.js, Tailwind CSS, Next.js

Backend: Spring Boot, Flask, Quarkus, Express.js, RESTful APIs, Microservices

Databases: PostgreSQL, MySQL, MongoDB, Redis, GraphQL

DevOps & Cloud: Docker, Kubernetes, Jenkins, AWS (EC2, S3, Lambda), CI/CD Pipelines

Tools & Utilities: Git, Nginx, Linux/Shell Scripting, Performance Optimization, messaging (Kafka)