

# DEEPAK PRAKASH

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## ABOUT

Backend Developer with extensive microservices experience and a track record of building scalable, secure backends using Python and TypeScript. Expertise includes developing REST and GraphQL APIs, optimizing cloud infrastructure, and implementing cost-efficient solutions. Adept at working with AWS, CI/CD pipelines, and modern development tools, aiming to enhance EVgo's Accounts & Billing platform.

## SKILLS

- **Languages:** Python, TypeScript, C++, Solidity, Bash, Golang, Hindi, English, French
- **Frameworks/Skills:** Kubernetes, Docker, MERN, SQL, MongoDB, AWS, GCP, Django, web3js, Node.js, APIs, PostgreSQL, DynamoDB, Git, Testing Frameworks
- **Certifications:** CKAD, MongoDB Associate DBA, MongoDB Associate Developer, ML Specialization Deep Learning, Statistics with SAS, Blockchain Applications, Deep Learning using HPC

## EXPERIENCE

### Testlify

Dec 2023 - Present

#### Backend Developer

Developed and maintained scalable, multi-regional, serverless video solutions using Loopback4, MongoDB, Redis, Docker, and AWS, incorporating efficient APIs and AWS cloud services.

- Engineered a transcoding, transcription, and moderation system that achieved a 10X cost reduction while ensuring seamless performance through efficient user management and backend component development.
- Conducted distributed load testing across multiple components to evaluate and optimize performance, aligning with CI/CD best practices.
- Created a custom Go scaler for dynamic component scaling based on diverse metrics, contributing to improved application responsiveness.
- Architected and enhanced a distributed code compilation system on AWS, integrating Git-managed CI/CD pipelines for streamlined deployments.
- Implemented Redis caching and search optimizations, increasing API speed by 30% and reinforcing robust backend performance and debugging practices in production.

### Illuminz

Jul 2023 - Nov 2023

#### Backend Developer

Developed backend services for a survey platform using HapiJS, PostgreSQL, and AWS, optimizing data models to increase user capacity by 50% and ensuring efficient user and payment data handling.

- Designed and prototyped a graph database to analyze survey insights, facilitating effective data analysis and decision-making, while reinforcing best practices in API development and data management.

### Freelance

Mar 2023 - Jun 2023

#### Backend Developer

Backend Developer(Freelance) (Python, Django, PostgreSQL, Microservices, AWS)

- Developed Django backend and added data analysis features leveraging SQL for the bot and the dashboard.
- Added anti-cheat and ML model to filter explicit content. Managed/Improved cloud infrastructure.

### SOLVECHAMP

Dec 2022 - Mar 2023

#### Backend Developer Intern

Backend Developer Intern@SOLVECHAMP) (GraphQL, PostgreSQL, Microservices)

- Developed a GraphQL backend, Successfully grew user base to over a thousand.
- Developed a vector DB (pgvector) powered solution that recommends questions to the test-takers.

### Vidyayan Eduventures Pvt. Ltd.(Funded by Govt. of Bihar)

Jul 2020 - Mar 2021

#### Full Stack Developer, Co-founder

Full Stack Developer, Co-founder (JavaScript, MongoDB, AWS)

- Successfully expanded the user base to over two thousand users.
- I developed the backend, dashboard, and Distance Matrix API for locating the nearest available tutor or student.

## EDUCATION

BCE, Bhagalpur | B.Tech, Computer Science (GPA: 8.4 CGPA)

2019 - 2023

## PROJECTS

### OpenCV Chess Bot: OpenCV, d3dshot, tkinter

- Developed a Python-based Computer Vision bot for seamless chess playing on any screen.
- Implemented sockets and threading, leveraging cloud servers for more powerful computations with Stockfish.