Dipit Vasdev

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EDUCATION

New York University (NYU) – New York, NY   **September 2022 – May 2024**
Master of Science | Computer Engineering – **GPA: 3.9**
Relevant Coursework: Machine Learning, Data Structures and Algorithms, Deep Learning, Data Science, Data Visualization, Big Data

Guru Gobind Singh Indraprastha University – New Delhi, India   **August 2018 – July 2022**
Bachelor of Technology | Computer Science and Engineering – **GPA: 3.7**

EXPERIENCE

Software Engineer | Hack for LA, California (Remote)   **August 2024 – Present**
- Contributing to the development of the TDM Calculator using **React** and **Node.js** for Hack for LA, streamlining Los Angeles' Transportation Demand Management (TDM) regulations.

Research Assistant | DICE Lab - NYU Tandon School of Engineering, New York, NY   **December 2023 – May 2024**
- Led a project on vision-language models for radiology report generation using **Python**, contributing to a vision transformer for medical image understanding, and **lead**-**authored** a paper with top cancer researchers at MSK.
- Managed **Greene clusters** by running tmux sessions and executing Linux commands for environment management, optimizing **HPC resources** and reducing data processing time by 40%.
- Experienced with downloading **large datasets** (e.g., 500GB+ from PhysioNet) using tools like wget and rclone, optimizing download speeds with data transfer nodes and parallel processing.

Full Stack Software Engineer Intern | Alten Capital, New York, NY   **May 2023 – August 2023**
- Designed 20+ robust **REST API** backend endpo**ints** and middleware functions using **Express API** server and **MongoDB**, enabling **CRUD operations** and shipped products end-to-end for this early-stage startup.
- Deployed 4 optimized middleware functions, focusing on **authentication**, error handling, and validation checks, leading to an 17% reduction in redundant code.
- Managed **MongoDB** databases and utilized **MongoDB Atlas** for secure cloud-based database deployments, ensuring seamless data access and management.
- Developed and integrated secure **user authentication** and **authorization** systems using **JWT** and **OAuth2.**
- Automated the build, test, and deployment process using **GitLab CI/CD** and deployed the project on Vercel.

Software Engineer Intern | *S&P Global*, Gurgaon, India   **May 2021 – July 2021**
- Designed 4+ **AWS CloudWatch** and **Grafana dashboards** for application monitoring and metrics aggregation.
- Developed **AWS Lambda** functions in **Python** to automate data extraction and processing tasks reducing cost by 25%.
- Configured **Logstash** to send **AWS RDS** data to **Elasticsearch**, facilitating comprehensive data analysis.

PROJECTS

Full Stack Recipe Sharing Platform Development and Deployment (React, EC2, S3, CloudFront, SQL**)**   **July 2024**
- Developed a recipe sharing platform using React with **Context API**, Tailwind CSS for frontend, and **Django** for backend.
- Configured and deployed React frontend on **AWS S3** with **CloudFront** for CDN, ensuring fast and secure content delivery
- Deployed **Django** backend on **AWS EC2**, configured with **Nginx** and **Gunicorn** for robust and scalable server management.
- Managed backend data with **PostgreSQL** database, performed migrations, and ensured schema updates.
- Utilized **AWS VPC** to create a custom private subnet, enhancing security and network management for EC2 instances.

AI-Driven GitHub Issue Classification System (Apache Spark, PySpark MLlib, Databricks, GCP)   **June 2024**
- Built a machine learning model achieving 85% accuracy in classifying GitHub issues using **Logistic Regression** and **PySpark** on **Databricks** (GCP Compute). Developed a **React frontend** for real-time predictions.

SKILLS

Development:	Full Stack Web Development, HTML, CSS, RESTful APIs, App Development, Vercel, AWS Cloud
Programming Languages:	JavaScript, TypeScript, SQL (PostgreSQL), NoSQL (MongoDB), Python, C/C++, Kotlin, Java
Frameworks & Libraries:	React, Next.js, Node.js, Express, Mongoose, Flask, Scikit-learn, TensorFlow, Junit, Springboot
CS Fundamentals:	Object-oriented programming (OOP), Agile Development, Data Structures, Machine Learning
Version Control:	Git, GitHub, CI/CD (continuous integration and continuous delivery/deployment)

AWARDS AND ACCOLADES

Recognized as Top Data Science Voice – LinkedIn   **January 2024**
Runner up, eYantra Robotics Competition – Indian Institute of Technology, Bombay   **April 2021**