Avni Chauhan

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⌂ **Github Link**
in **LinkedIn Profile**

EDUCATION

· **University Of Petroleum and Energy Studies** *Aug 2021 - May 2025*
B.Tech Computer Science CGPA: 8.79

· **DAV Centenary Public School, Haridwar** *April 2020 - March 2021*
Central Board of Secondary Education Percentage: 91%

EXPERIENCE

· **Upswing-Cognitive Hospitality Solutions** *June 2024 - August 2024*
Software Developer Intern'24 Pune

– Developed a production-based highly secure, scalable, and SSH-certified database microservice using MongoDB, deployed on **Google Kubernetes Engine** (GKE), and hosted on Google Cloud Platform (GCP). The service is platform-independent, capable of running on any cloud platform and local machines, utilizing persistent SSD volumes for data storage, ensuring 99.9% uptime.

– Fully deployed a Helm chart for Grafana and Prometheus, creating a robust monitoring tool capable of monitoring over 500 microservices running on any platform.

– Worked on backend API technology using gRPC to create microservice APIs, handling over 1000 requests per second, ensuring efficient communication between services.

– Utilized Pants tool for building and followed GitHub Actions for pipeline deployment of microservices, achieving a deployment time reduction of 40% and ensuring a streamlined and automated deployment process.

· **PwC** *Feb 2024 - July 2024*
Intern Trainee'24 Remote

– Gained comprehensive knowledge of IT infrastructure, cybersecurity principles, and relational database management systems (RDBMS), with hands-on experience in SQL, database design, normalization, and optimization techniques.

– Developed skills in designing and building data pipelines, implementing ETL processes, and working with data warehousing concepts and big data technologies for efficient data collection, processing, and analysis.

PERSONAL PROJECTS

· **E-Commerce Platform Development** *ReactJS, Strapi API*
E-commerce platform with features

– Developed an E-commerce platform using React.js for the frontend and Strapi API for the backend. This platform features a user-friendly product catalog with categories like Bluetooth speakers, headphones, and smartwatches.

– Integrated Stripe for seamless payment functionality, allowing users to securely make purchases with various payment methods, enhancing the overall convenience and reliability of the platform.

– Focused on user experience by implementing a streamlined cart system for easy product management and a robust product search mechanism for efficient browsing.

· **Rock Paper Scissors Game** *HTML, CSS, JavaScript*
For real-time interactive engagement between gamer and the computer

– Provides near-instantaneous replies (usually <1 second)

– Link

· **Automating Tetris Deployment** *Terraform, Jenkins, Docker, Sonar Qube, AWS EKS, ArgoCD*
Seamlessly Secure, Automated, and Scalable with DevSecOps.

– Orchestrated deployment pipeline for two Tetris game versions using ArgoCD, Terraform, and Jenkins, reducing deployment time by 50% and increasing frequency by 40%.

– Implemented stringent security measures, including Trivy scan and SonarQube integration, reducing vulnerabilities by 99.9% and ensuring 100% compliance with industry standards like OWASP Top 10.

– Utilized Docker containers and AWS EKS for scalable and efficient deployment, optimizing resource utilization and enhancing system performance.

– Link

· **Three-Tier Web Application** *ReactJs, NodeJs, Express, MongoDB*
Enhancing deployment precision with AWS EKS and GitOps for optimal performance

– Orchestrated deployment of a Three-Tier Web Application on AWS EKS using Terraform, AWS CLI, and Jenkins, reducing deployment time by 40% and minimizing errors by 50%.

– Implemented Helm, Prometheus, Grafana, and ArgoCD for monitoring and GitOps practices, resulting in a 30% increase in system reliability and a 25% decrease in deployment failures.

– Link

Technical Skills and Interests

Languages: C, Python, Java, JavaScript
Technologies/Frameworks:
[Intermediate]: HTML, CSS, REST, Node.js, Express.js, Grpc, ReactJS , MongoDB ,AWS ,GKE
Developer Tools: Git/Github, Docker , Jenkins , SonarQube , Terraform, Pants, Grafana, Prometheus, Kubernetes
Areas of Interest: Data Structures and Algorithms, Web Development, Machine Learning, DevOps

Positions of responsibility

- **DSW AMBASSADOR** Dean of Student Welfare Community   *Present*
- **Student Placement Representative** Placement Cell   *Present*
- **Event Lead,** IET & NBSP Communities   *2022 -2023*

Achievements

- Neo4j Certified Professional. Link.
- AWS Academy Graduate - AWS Academy Cloud Foundations. Link
- AWS Academy Graduate - AWS Academy Introduction to Cloud Semester 1. Link
- Successfully completed a comprehensive 2023 DevOps Boot camp, organized by UPES in collaboration with INT. Link
- Achieved a nationwide rank of 5341 in the CodeKaze'23 contest conducted by Coding Ninjas. Link .
- Part of the Organizing Committee of Xe-Fest event hosted by Xebia. Link .
- Awarded with Academic Scholarship twice by UPES for securing the highest GPA among my batch mates for the academic session 2021-22 & 222-23.