

Varun Nair

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Education

VIT Bhopal University – B.Tech in Computer Science Engineering (CGPA - 9.03) 2025

Certifications

AWS: Certified Solutions Architect – Associate 2024

AWS: Certified Cloud Practitioner 2024

Skills

Languages: Python, Go, SQL

Technologies: AWS, Kubernetes, Docker, MongoDB, Boto3, Puppeteer

AWS Services: AWS Lambda, AWS S3, EC2, ELB, API Gateway, Cognito

Experience

Data Engineer, Plypicker – Remote Intern Feb 2022 – Dec 2022

- Architected MongoDB schema for over 100,000 product records, reducing query times by 20%
- Engineered Python data pipeline, processing and loading 100K+ records daily into MongoDB
- Automated the uploading of scraped images to AWS S3 using Python and Boto3 to
- Led a team of 5 to scrape product data from over 70 e-commerce websites using Puppeteer and BeautifulSoup

Projects

ArthroMate

- Engineered ArthroMate's backend infrastructure using AWS Lambda and DynamoDB, processing 500+ daily arthritis pain reports and accelerating diagnosis by 30%
- Designed scalable serverless architecture with API Gateway and Cognito, supporting 10,000+ monthly users at 99.9% uptime with 200ms response times
- Implemented CI/CD pipeline using AWS CodePipeline, reducing deployment time by 50%
- Created logging and monitoring system using AWS CloudWatch, reducing time to resolution for issues by 25%

Event-Driven Property Management

- Architected high-performance serverless contract system using Lambda and DynamoDB, handling 1,000+ daily contracts and slashing processing time by 40%
- Implemented a real-time event tracking solution with AWS EventBridge and DynamoDB Streams, enabling seamless propagation of contract status changes
- Orchestrated inter-service messaging via EventBridge, managing 500+ daily events with sub-100ms latency
- Optimised data retrieval with DynamoDB, achieving <10ms read times for 95% of queries across 100,000+ records
- Streamlined Lambda development using AWS Powertools, reducing boilerplate code by 30% in 20+ functions

Co-curricular Activities

Technical Team Member, Linux Club Jan 2024 – Mar 2024

- Deployed 12-hour long Capture The Flag (CTF) event with over 300 participants using AWS EC2 and ELB
- Developed 5 AWS S3-focused CTF challenges, enhancing cloud security skills for 50+ participants

Competitive Coding, Leetcode

- Achieved a Global Rank of 41,738 out of over five million participants
- Maintained a Contest Rating of 1735, placing in the Top 10% of users globally
- Solved over 700 problems, demonstrating proficiency in algorithms and data structures