Ayush Poudel

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Education

University of South Florida, Tampa, FL   Aug 2022 - May 2026
Degree: Bachelor's of Science   GPA: 4.00/4.00
Major: **Computer Science** | **Dean's List** for four consecutive terms
Coursework: Analysis of Algorithms, Database Management Systems, Introduction to AI, Data Structures, Program Design, Computer Architecture, System Design, Discrete Mathematics

Projects

FlatGuru at USF | React.js, Node.js, MongoDB, JWT   Sep 2024
- **Built, maintained, and troubleshooted** a platform for USF students, enhancing **infrastructure stability** and performance, and reducing **security incidents** by 15% through **JWT implementation.**
- **Automated repetitive tasks**, leading to a 50% reduction in manual intervention. Conducted performance optimization that cut **API response times** by 40% and reduced server costs by 20%. **Presented improvements** to stakeholders, resulting in a 30% faster decision-making process.

Green Rise Nepal | React.js, Node.js, MongoDB, Express.js   July 2024
- **Developed and maintained** a full-stack platform using the MERN stack, increasing **user engagement** by 30% and volunteer sign-ups by 25% within the first three months through **API integration**, caching strategies, and **automated testing.**
- **Deployed** the platform on **AWS EC2**, ensuring 99.99% uptime and capable to handle up to 10,000 concurrent users **Resolved 95%** of infrastructure issues within 24 hours through effective **research and analysis**, **documenting processes** that improved team productivity by 40%.

AWS Three-Tier Web Architecture | AWS Services, React.js, Node.js   May 2024
- **Built and optimized** a scalable three-tier system on **AWS**, achieving 100% uptime, reducing latency by 40%, and increasing network efficiency to 99.5% with **ELB Auto Scaling** and **CloudWatch monitoring.**
- **Automated** 60% of routine tasks, saving over 100 hours per month in manual work. Integrated **predictive analytics** that proactively resolved 70% of potential issues before they impacted the system, and **presented these solutions** to stakeholders, reducing downtime by 90%.

CI/CD Pipeline for Java Application | ArgoCD, GitOps, Kubernetes, Docker, Jenkins   Mar 2024
- **Built and maintained** a CI/CD pipeline for a **Java Spring Boot** application, reducing **build and deployment cycle** times by 40% and **deployment errors** by 30% through the use of **TDD**, **Agile methodologies**, and **automated testing**.
- **Deployed** in **Kubernetes** with 99.9% uptime, improving scalability to handle a 300% increase in traffic. Utilized **Python and Java** to enhance **infrastructure stability**, **documented processes**, and **presented findings** that improved team efficiency by 35%.

Work Experience

Student Operations Lead | Aramark USF Campus   Aug 2022 - Present
Part-Time   Tampa, FL
- **Assisted in scheduling** for 70+ students, 85+ full-time staff, and 100+ event-based volunteers, creating bi-weekly schedules that optimized coverage and reduced labor costs by **12%**.
- **Coordinated** with the Chef Manager and Dining Director to accurately estimate labor costs and calculate profits, ensuring compliance with financial regulations. **Increased profitability by 10%** by aligning operational strategies with customer needs.

Software Developer Intern | Green Rise Nepal   May 2024 - Aug 2024
Internship   Remote, Kathmandu, Bāgmatī, Nepal
- **Developed** a dynamic, responsive website using the **MERN stack** (MongoDB, Express.js, React, Node.js), enhancing the organization's online presence and increasing user engagement by **30%**.
- **Deployed** the platform on **Netlify**, optimizing for speed, security, and scalability, which resulted in a **25% improvement** in load times and ensured **99.99% uptime**.

Awards

USF Green & Gold Presidential Waiver Award   May 2022 - Present
- **Awarded** a top-tier merit-based scholarship valued at up to **$48,000**, covering tuition for less than **0.5% of applicants**, based on academic excellence and leadership, with a **4.0 GPA** placing in the top **0.5% of students** at USF.

Technical Skills

Cloud Technologies: AWS (EC2, S3, ELB, ASG, RDS, VPC, CloudWatch, Lambda, API Gateway, EKS, CloudFormation)
Devops Tools: Docker, Jenkins, Ansible, Terraform, Kubernetes, ArgoCD, GitOps
Devops Methodologies: Infrastructure as Code (IaC), Policy as Code (PaC), DevSecOps, Agile Methods, Automation
Languages and DataBases: JavaScript, Shell Script, YAML, C++, C, Python, MondoDb, PostGresSQL, SQL
Frameworks/Libraries: React.js, Express.js, Numpy, Pandas, MatPlotLib
Soft Skills: Leadership, Communication, Quick Learner, High Aptitude, Team Player, Employee Training