**AYUSH POUDEL**

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# **Education**

**University of South Florida,** Tampa, FLAug 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

# **Work Experience**

**Software Developer Intern | Green Rise Nepal** May 2024 - Aug 2024

***Internship*** Remote, Kathmandu, Bāgmatī, Nepal

* Led the **Agile development** of a dynamic and responsive **web application** using the **React** framework, **Node**.js, **MongoDB**, and **JWT**. Improved **sprint** **completion** rates by 25%, successfully managed and resolved **100**+ **pull** **requests**, and reduced bug incidence by 25% through the implementation of Git **Version Control** and Jenkins **CI**/**CD** pipeline.
* Transitioned the platform from **PaaS**, utilizing **Google App Engine**, to **IaaS** on **AWS**, enhancing scalability, elasticity, and cost efficiency. This strategic **cloud migration** led to a 100-hour labor reduction per month by **automating** routine tasks using **Terraform**, AWS **CloudFormation**, **ArgoCD** and **Ansible**, effectively resolving 70% of potential issues before they impacted the system.

**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.

# **Projects**

**FlatGuru at USF | React.js, Node.js, MongoDB, JWT** Sep 2024

* Currently developing and optimizing a full-stack platform for USF students, utilizing **React.js** for the frontend, deployed on **Google App Engine (GAE)**, with **Node.js** and **MongoDB** for the backend. Leveraging **Git** for version control, **Jenkins** for CI/CD pipelines, and **Jest** for testing, ensuring seamless integration and deployment. Achieved a 30% reduction in deployment times and a 20% increase in build reliability.
* Enhancing both **frontend** and **backend** systems by optimizing **database** **queries**, streamlining backend processes, and integrating cloud services to ensure 100% scalability and 4/5 high performance. Focused on improving user experience and infrastructure stability, reducing security incidents by 15% through effective JWT implementation.

**AWS Three-Tier Web Architecture |**AWS Services, React.js, Node.js May 2024

* Designed and **implemented** a highly **scalable** **three-tier web architecture** on **AWS**, utilizing **Amazon Route 53** for DNS routing, **CloudFront** for global content delivery, and **S3** for static asset storage. **ELB** and **ASG** were deployed to distribute traffic and dynamically scale **EC2** instances, ensuring 100% uptime and a 40% reduction in latency. **VPC** was configured with **Security Groups (SG)** and **NACLs** for 100% secure and isolated network environments.
* Managed the **Data Tier** using **RDS** for relational data, **DynamoDB** for NoSQL storage, and **ElastiCache** for caching, improving network efficiency to 99.5%. Automated 60% of routine tasks with **AWS Lambda**, **CloudWatch Events**, and **Systems Manager**, resulting a 90% decrease in downtime by proactively addressing issues before they impacted the system.

**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**

# **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, Google App Engine (PaaS) **Devops Tools:** Docker/DockerHub, Jenkins, Ansible/Ansible-Galaxy, Terraform, Kubernetes, Git/Github

**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