Chaitanya Chaudhari

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Professional Summary

Graduate CS student with strong programming foundations in C/C++, systems design, and operating systems. Experienced in backend software development, debugging, and automation across cloud-native stacks. Proficient in Linux environments with hands-on exposure to Docker, Kubernetes, and container orchestration. Eager to contribute to next-gen data center simulation and system-level software at NVIDIA.

Education

George Mason University, Fairfax, Virginia.   August 2024 - Present

Master of Science, Computer Science

- **Coursework:** Component based Software Development (DevOps & Infrastructure), Information Security, Network Security.

Internship Experience

Cognifront Software Pvt. Ltd   January 2023-March 2023

Web Development Intern

- Designed dynamic frontend components using **JavaScript** and optimized backend queries with PHP/SQL, enhancing system responsiveness by 30%.
- Improved backend scalability by restructuring database architecture, achieving a **20%** reduction in query load times.
- Implemented version control workflows with **Git,** and managed deployments on **Linux-based staging environments**, improving integration turnaround by 25%.

The Sparks Foundation   December 2022-January 2023

Data Science & Business Analytics Intern

- Built and deployed predictive ML models using Scikit-learn and TensorFlow, improving model accuracy by 20%.
- Automated data cleaning and preprocessing pipelines, reducing manual effort by **25%** and improving dataset quality.
- Designed and published interactive dashboards on Tableau and Power BI, accelerating decision-making for stakeholders.

Projects

DockPilot – AI-Powered Dockerfile Generator. [GitHub](#)

- Developed a Python tool leveraging **LLaMA 3** (via Ollama) to generate **Dockerfiles** for any language.
- Created a structured project directory with Dockerfile and .dockerignore, supporting **prompt-based customization**.
- Integrated Dockerfile generation with GitHub Actions for automated builds and deployment to DockerHub

Loopify – Full Stack Music Streaming App. [GitHub](#)

- Architected a full-stack music streaming application using **React, Redux, TypeScript**, and **Tailwind CSS**, delivering a responsive and mobile-optimized UI across devices.
- Engineered a scalable backend with **Node.js** and **Express.js,** integrating real-time song search and lyrics display via REST APIs, improving query efficiency by **35%**.
- Containerized and deployed the application using Docker, ensuring consistent performance and faster environment setup across different deployment targets.

Early-Stage Eye Disease Detection (Anisocoria) [GitHub](#)

- Developed a machine learning pipeline in Python using image processing techniques (Hough Transform, binarization) and Scikit-learn, achieving **85% accuracy** in detecting anisocoria.
- Enhanced model scalability and reliability through iterative testing and distributed computing techniques, optimizing large-scale healthcare data analysis workflows.

Unisurvey – Full Stack Campus Survey App. [GitHub](#)

- Developed and deployed a full-stack survey app using Angular (frontend) and Spring Boot (backend), with MySQL on **Amazon RDS**.
- Integrated real-time form validation, cookie-based greetings, and ZIP-code autofill using AJAX and JSON.
- Built a **Jenkins-based CI/CD pipeline** and containerized the app using **Docker,** deploying on a **Kubernetes** cluster via Rancher**,** ensuring seamless rollouts and high availability.

Technical Skills

- **DevOps & Cloud:** AWS, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD, Rancher, Terraform.
- **Languages:** C++, Go (basic), Java, TypeScript, JavaScript, Python.
- **Operating Systems & Tools:** Linux (CLI), Git, Bash, Shell Scripting
- **Web Development:** Node.js, Express.js, React.js, Angular, Spring Boot
- **Data & Visualization:** MySQL, MongoDB, Amazon RDS, Power BI, Tableau
- **Certifications**: AWS Academy Cloud Foundations, DevOps Foundation, C++ (IIT Bombay)