Chaitanya Chaudhari

Software Engineer

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Profile Summary

Master's student in Computer Science with expertise in full-stack software development, backend engineering, and data science. Passionate about machine learning, cloud computing, and scalable system design. Proficient in Java, C++, Python, SQL, JavaScript, and cloud technologies with a strong foundation in data modeling, distributed computing, and big data processing. Adept at test-driven development (TDD), collaborative software engineering, and problem-solving in Agile environments.

Experience

Cognifront Software Pvt. Ltd   January 2023-February 2023

Web Development Intern

- Developed dynamic web functionalities using JavaScript to enhance seamless user interaction and applied PHP for efficient backend development and database management.
- Developed and managed relational databases using SQL to support web applications, ensuring efficient data storage and retrieval.
- Executed rigorous test cases with a 98% success rate, maintaining high system reliability and fault tolerance.
- Collaborated with cross-functional teams, implementing CI/CD pipelines to reduce project delivery time by 20%.

The Sparks Foundation   December 2022-January 2023

Data Science & Business Analytics Intern

- Developed and executed code to collect, clean, and analyze data from diverse internal and external sources, enhancing data quality and reliability.
- Designed and executed machine learning models with high accuracy, showcasing problem-solving and technical adaptability.
- Designed and fine-tuned machine learning models using Scikit-learn & TensorFlow, enhancing model accuracy by 20%.
- Created data visualizations using Tableau & Power BI, presenting insights that influenced key business decisions

Technical Skills

Programming Languages: Java, C++, C, Python, SQL, JavaScript, PHP

Frontend: React, Redux, TypeScript, HTML, CSS

Backend: Node.js, Express.js, Django, Flask

Cloud & DevOps: AWS, Google Cloud Platform, CI/CD Pipelines, Docker, Kubernetes

Big Data & Databases: SQL, MongoDB, Spark, Hadoop, REST APIs, JSON

Software Development: Agile, Scrum, Scalable System Design, Distributed Computing, Test-Driven Development

Education

George Mason University, Fairfax, Virginia.   Expected May 2026

Master of Science, Computer Science

K. K. Wagh Institute of Engineering Education and Research, Nashik, India.   August 2020- May 2024

Bachelor of Engineering, Computer Engineering

Projects

Loopify:

- Developed a music app using React, Tailwind, Redux, and Rapid API, featuring a modern user interface and seamless music streaming experience.
- Integrated advanced features such as song search, lyrics display, and worldwide top charts to enhance user engagement and functionality, while developing modular and reusable code components aligned with best practices for scalable design.
- Engineered a scalable music player with real-time song search and lyrics, improving search efficiency by 35%.

Early-Stage Eye Disease (Anisocoria) Detection using Machine Learning: [Link](#)

- Implemented image processing techniques such as Hough transform and image binarization to effectively detect early-stage anisocoria.
- Led a multidisciplinary project to develop a machine learning-based eye disease detection system, achieving 85% accuracy through iterative improvements and cross-functional collaboration.
- Trained and tested machine learning algorithms to achieve an accuracy of 85% in detecting anisocoria, demonstrating effective model reliability.

Certifications: AWS Academy Cloud Foundations, DevOps Foundation, C++ Spoken tutorial IIT Bombay.