

# CHETANYA ANIL RATHI

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## EDUCATION

**Syracuse University, New York** | Master of Science in Computer Science | May 2026 | GPA: 3.5/4

**Coursework:** Algorithms, Machine Learning, Architecture, Operating Systems

**Vishwakarma Institute of Technology, Pune** | Bachelor of Technology in AI & Data Science | May 2024 | GPA: 3.7/4

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## TECHNICAL SKILLS

**Languages and Frameworks:** C++, Python, JavaScript, SQL, OpenCV, Flask, PHP, REST API, MERN Stack, Git, GitHub

**Cloud and DevOps:** AWS S3, AWS Lambda, AWS RDS, PostgreSQL

**Other Skills:** Artificial Intelligence, Data Science, Machine Learning Algorithms, Data Structures, Linux

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## WORK EXPERIENCE

**Main 10 – Maintenance Management Tool** | *Software Development Intern*

**(Jan 2024 – May 2024)**

- Built a responsive full-stack web application using React.js and MongoDB, improving data management productivity by 40%, enabling real-time maintenance tracking, and reducing data retrieval time by 25%
- Deployed AWS S3 for scalable cloud storage, ensuring reliable data backup and faster retrieval, while optimizing configurations to minimize downtime and improved system resilience.
- Implemented AWS Lambda functions and deployed AWS RDS (PostgreSQL) to automate workflows, trigger real-time maintenance alerts and improved query accuracy by 35% with high availability.

**Hum Aspen Wellness Private Limited** | *Software Development Intern*

**(June 2023 – Dec 2023)**

- Contributed to the development of Now Zone Life, a wellness tracking mobile application, increasing user engagement by 35% through an improved graphical user interface using React.js
  - Managed and optimized SQL and NoSQL (MongoDB) databases, improving data handling accuracy by 50% and reducing query execution time by 30%
  - Conducted extensive software testing, defining 150+ critical test cases, identifying 30+ key bugs, and improving overall software quality by 30%
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## HACKATHON AND PROJECTS

**EECS Hackathon, Syracuse University**

**(Jan 2024 – Feb 2025)**

- Developed an award-winning automated grading system, reducing manual grading time by 60% and enhancing fairness through NLP-based expertise matching and constraint-based scheduling.
- Built a Flask web application for real-time scoring, processing 500+ assignment submissions with an automated evaluation pipeline. Integrated web scraping for faculty research interests and implemented structured data processing for generating assignment reports, which improved assignment matching accuracy by 40%.

**Voice Cloning & Forgery Detection**

**(Jan 2024 – May 2024)**

- Developed a deep learning model capable of generating highly realistic audio signals and detecting forged voice samples with 95% accuracy. Applied advanced machine learning techniques for audio signal processing.
- Implemented Wave GAN, Spec GAN, and DC GAN achieving 20% higher precision in distinguishing between authentic and manipulated speech compared to baseline models.

**Computer Activity Logging System**

**(Aug 2022 – Dec 2022)**

- Designed and developed a real-time computer activity monitoring system to track web browsing, block content and applications, reducing unauthorized browsing incidents by 50%.
  - Integrated OpenCV for image processing and leveraged the MERN stack for a robust dashboard, improving monitoring accuracy by 40% also Built a Java-based application to enhance system compatibility.
  - Successfully deployed the system in a college computer lab, tracking 100+ student sessions daily and generating automated usage reports
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## EXTRACURRICULAR ACTIVITIES

- Project Lead for the AI Club at the EECS Department, Syracuse University.
- Published Paper - Voice Cloning and Forgery Detection using Wave GAN and Spec GAN, IEEE ([Link](#))