TANMAY RATHI

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TECHNICAL SKILLS

Languages: Java, Python, SQL, C++, JavaScript, TypeScript
Frameworks & Libraries: Spring Boot, Next.js, React.js, Flask, Maven, CloudFormation, Jenkins, Hadoop
Technologies & Tools: AWS, Git, Amazon Bedrock, LangChain, Docker, Kubernetes, Kafka, Spark, MongoDB, MySQL

EDUCATION

New York University, New York | *CGPA - 3.96/4.00*   Sept 2023 - May 2025
- Master of Science in Computer Science
- Relevant Coursework - Design and Analysis of Algorithms, Cloud Computing, Deep Learning, Big Data

Savitribai Phule Pune University, Pune | *CGPA - 9.01/10*   July 2017 - July 2021
- Bachelor in Engineering in Computer Science
- Relevant Coursework - Object Oriented Programming, Databases, Operating Systems, Machine Learning

WORK EXPERIENCE

Seedless Inc., *New York, NY*   Jan 2025 – Present
AI Software Engineer Intern, **Founding Team Member**
- Designed a generative AI pipeline using Amazon Bedrock, LangChain, and CrewAI, leveraging **RAG** to produce 50,000+ synthetic artifacts, enabling enterprises to test AI models with contextual unstructured data tailored to realistic scenarios.

New York University IT, *New York, NY*   Sept 2023 – Present
Software Engineer Intern
- Created a scalable web app with **Next.js, TypeScript**, and Node.js with GitHub Actions to push changes, enabling 500+ researchers to design custom forms, cutting development time by 90%, and reducing validation workload by 80%.
- Bolstered data security and retrieval speed by 40% for over 300 departments by utilizing Amazon S3 and DynamoDB, and integrating Google and NYU Shibboleth OAuth, reducing unauthorized access attempts by 25%.

Southern Ridges Capital, *New York, NY*   June 2024 - Aug 2024
Software Engineer Intern
- Automated portfolio risk assessments by deploying a Docker-containerized system on AWS Elastic Beanstalk, with a React frontend and Flask backend, integrated with Bloomberg API—reducing manual analysis by 20 hours per week.

eQ Technologic, *Pune, India*   Aug 2021 – June 2023
Software Engineer
- Enhanced the eQube-API Gateway with **Java, Angular, Spring Boot** (with Maven and Jenkins), managing over 1,000+ API calls per minute, increasing client integration efficiency by 25% and ensuring stable performance during peak loads.

Parametric Technology Corporation, *Pune, India*   Sept 2020 - June 2021
Software Engineer Intern
- Built and presented SCAT for PTC's Windchill, an automation framework using Java, Selenium, and JUnit. This cut data creation and testing time by 10x, reducing processing duration from 30 minutes to under 3 minutes.

PROJECTS

WealthWave 🔗 | *AWS Elastic Beanstalk, OpenAI API, Cognito, SageMaker, Lambda, API Gateway, DynamoDB*
Engineered WealthWave, a scalable finance app on AWS Elastic Beanstalk, incorporating Amazon Rekognition for bill analysis, **OpenAI's LLM API** for financial insights, and Cognito for secure authentication. Enabled predictive spending insights with SageMaker and optimized backend efficiency with Lambda, API Gateway, and DynamoDB.

Cloud-Native Task Management Application 🔗 | *Flask, Docker, Kubernetes, AWS EKS, Prometheus, Slack*
Spearheaded the containerization and deployment of a task management app using Flask and Docker on Minikube and AWS EKS. Configured Kubernetes for seamless scaling and reliability with replication controllers and rolling updates. Linked Prometheus for real-time system monitoring and Slack for alerting, improving operational efficiency and system uptime.

Dining Concierge Chatbot 🔗 | *AWS Lex, Lambda, API Gateway, ElasticSearch, DynamoDB, SES*
Developed a serverless chatbot for restaurant recommendations using AWS Lex for NLP and Lambda for backend processing. Integrated API Gateway for secure interactions and optimized data storage and retrieval with ElasticSearch and DynamoDB. Automated email notifications with SES, enhancing user engagement and reliability.

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate | AWS Certified AI Practitioner | ML & DL Specialization (Coursera)
- **NYU Academic Achievement Award** – Top 5% in graduate program | Merit-Based Scholarship Recipient