Tanmay Bhuskute

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EDUCATION

Master of Science in Computer Science - University of Cincinnati Aug 2024 - May 2026
Relevant Coursework: Advanced Algorithms, Deep Learning, Intelligent Data Analysis, Database Theory.

Bachelor of Engineering in Computer Engineering - AISSMS College of Engineering Aug 2018 - Jul 2022
Relevant Coursework: Data Mining, Data Analytics, Machine Learning, Object-Oriented Programming.

TECHNICAL SKILLS

Programming & Scripting: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Go, Rust.
Frameworks: React, Node.js, JUnit, FastAPI, Streamlit, Django, Flask, BERT.
Developer Tools: VS Code, Git, Docker, AWS, Azure, Google Cloud Platform, SonarQube, Postman, JFrog, Polarion, Jenkins, Argo CD, Kubernetes, REST APIs, Linux, Unix, Bash, TensorFlow.
Libraries: PyTorch, scikit-learn, pandas, NumPy, matplotlib, HuggingFace, OpenAI, LangChain, Pydantic, spaCy.

WORK EXPERIENCE

Siemens Industry Software (Software Developer Engineer) Jul 2022 - Jun 2024
Tech Stack: AWS, Python, Boto, REST APIs, Hashicorp Vault, Ansible, GitLab CI/CD, Shell, Kubernetes, ArgoCD
- Automated AWS workflows with Python (Boto3), cutting manual provisioning effort by replacing old Ruby scripts.
- Developed reusable Python packages for patching, boosting deployment effectiveness by **40%** in Agile setups.
- Led Blue-Green deployments with Ansible, reducing upgrade downtime by **50%** and enabling safe rollbacks.
- Mentored 5 junior engineers by creating documentation and training, strengthening team skills and collaboration.
- Enhanced code coverage by **200%** as Quality Coach and SonarQube Specialist through test automation & CI.
- Deployed **44 production upgrades in 4 months** without any service interruptions, debugging and fixing issues in real-time.

Siemens Industry Software (Software Developer Intern) Mar 2022 - Jun 2022
Tech Stack: AWS, Terraform, Ansible, Terratest, Go
- Automated provisioning of AWS resources with **Terraform**, reducing deployment time by **30%** across multiple environments.
- Developed **Go + Terratest framework**, improving reliability and catching **95%** of misconfigurations pre-production.
- Optimized DevOps workflows with **Ansible playbooks**, reducing environment setup time from **hours to minutes**.
- Enhanced cloud infrastructure validation using **Terragrunt**, ensuring **100%** successful Terraform runs in CI/CD.
- Increased cloud operations efficiency by implementing **IaC best practices**, improving team productivity by **20%**.

Government of Maharashtra, Water Resource Department (Software Developer Intern) Sep 2021 - Dec 2021
Tech Stack: React.js, MySQL, Full-Stack Development, UI/UX Design, Process Automation
- Developed a full-stack inward/outward register app with **React** and **MySQL**, replacing manual processes.
- Digitized record management, improving office efficiency by **40%** and reducing document processing time from **days to hours**.
- Deployed system adopted by the department, improving transparency and accuracy of records.

PROJECTS AND RESEARCH

Spendora - Conversational AI for Expense Insights [HuggingFace, LangChain, Mistral, Gemma] Jun 2025
- Developed LLM-powered finance assistant with LangChain to interpret queries and deliver personalized expense insights
- Implemented RAG with custom toolchains for structured financial data, reducing hallucinations and ensuring accuracy
- Deployed conversational agents with memory, tool use, and context to analyze transactions, spending trends, and budgets

News Headline Classification [Python, PyTorch, spaCy] Mar 2025
- Trained and constructed an **LSTM-based deep learning model** on 400K+ news headlines from the UCI dataset to classify articles into 4 categories: Business, Tech, Entertainment, and Health.
- Achieved **93.28% test accuracy**, outperforming baseline models with strong generalization on real-world NLP tasks.
- Optimized **PyTorch-based preprocessing and training pipeline**, improving model efficiency and reducing training time by **25%**.

Media Recommender | Published Paper ID - IJRASET42927 [React, Flask, Python, Spotify API] Mar 2022
- Developed a personalized media recommendation system for movies, music, and books using **HTML, CSS, and React**.
- Implemented multiple recommendation algorithms including **content-based and collaborative filtering, cosine similarity, Pearson correlation, K-means clustering, and TF-IDF vectorization** to deliver relevant recommendations.

SoundScape: Android Music App [Android SDK, Java, REST APIs, MediaPlayer, Gradle, Git] Dec 2021
- Architected and developed end-to-end Android music streaming application with client-side Java implementation, RESTful API integration, and local database management serving 100% offline functionality
- Developed scalable data pipeline integrating Musixmatch REST API for lyrics retrieval with Room database caching layer, reducing API calls by 70% and ensuring offline experience
- Implemented microservices architecture using Android background services for media playback, notification management, and file system operations with robust inter-component communication

EXTRACURRICULAR ACTIVITIES

- Finalist at **RevolutionUC 2025**, Cincinnati's largest student-led hackathon, selected among 300 participants from 31 schools for innovative project development.
- Earned **SAFe® Practitioner 5.1 Certification** (Mar 2023), demonstrating proficiency in Agile frameworks and scaled practices.