

Geeta Jethanand Kukreja

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<https://www.github.com/geeta-kukreja>

Skills

Java, Python, Go, JavaScript, C#, C++, asp.net, PHP, HTML, CSS, Shell scripting, ABAP, TensorFlow, OpenAI, LangChain, SpaCy, HuggingFace, Pandas, NumPy, Django, MATLAB, React, Node.js, Git, Flutter, UiPath, Flask, Vue.js, AWS, Docker, Kubernetes, Rest, Kafka, JUnit, Mockito, Cucumber, Maven, Spring MVC, Oracle, MySQL, DynamoDB, SQLite, PostgreSQL, MongoDB, Kibana, Grafana

Work Experience

Software Engineer | Pocket Worlds, Austin, USA

Oct 2024-Dec 2024

- Engineered ML regression models to identify trending content for 50K+ monthly users, driving 25% user engagement growth
- Architected Gen AI multi-language translation pipeline supporting 10+ languages, enabling global user expansion
- Built internal ad campaign system with custom targeting capabilities for 100K+ users, optimizing user acquisition flows
- Created real-time customer-facing AI chatbot using LLMs and a custom knowledge base, increasing feature adoption by 30%
- Deployed microservices on AWS EKS with Kubernetes orchestration, Grafana/Kibana monitoring, and secure cred management

Software Engineer Intern | Drexel University, Philadelphia, USA

Apr 2024-Present

- Constructed scalable data pipeline using OpenAlex API and Python to process 1000+ researchers' metrics, automating grant assessment workflows for INTEL Moore Foundation
- Formulated an ML scoring system to quantify collaborative research impact, enabling data-driven allocation of research grants
- Optimized ETL workflows using NLP for data validation and structuring, reducing manual assessment time by 60%

AI Engineer-RA | SocialNLP Lab, Drexel University, Philadelphia, USA

Sept 2023-Jun 2024

- Leveraged Machine Learning and NLP to identify deceptive language in cross-sector reviews dataset with 83% accuracy
- Incorporated Large Language Models (LLMs) for advancing lie detection research and analyzing AI vs. human writing styles

Software Engineer-RA | Drexel University, Philadelphia, USA

Apr 2023-Jun 2023

- Created an innovative online decision support tool using Python, Flask, and HTML/CSS to assist facility managers/owners mitigate water quality risks, resulting in a 25% reduction in water quality incidents.

Software Engineer | Colgate Global Business Services, Mumbai

Nov 2020-Aug 2022

- Engineered Python scripts automating 50+ processes, achieving 95% automation and cutting manual effort by 80%.
- Architected AWS solutions (Lambda, S3), optimizing scalability across 10+ countries and boosting deployment efficiency by 30%.
- Reduced costs by 20% by refactoring legacy systems into Python microservices, earning leadership recognition.
- Integrated Python automation with AWS, enhancing reliability and compliance for sales/promotion workflows.

Education

Master of Science in Computer Science | Drexel University, PA, USA | GPA: 3.9/4

Aug 2022-Jun 2024

Relevant coursework: Software Design, Data Structures and Algorithm, Artificial Intelligence, Software architecture, Cloud Software Engineering, Agile Methodologies, Object-Oriented programming, Test-Driven Development, Applied Machine Learning

Bachelor of Technology in Information Technology | K.J Somaiya College of Engineering | Mumbai, India

Aug 2017-Oct 2020

Academic projects

URL Shortener | System Design

Oct 2024

- Designed distributed URL service using consistent hashing and Redis for high-throughput key generation and load balancing
- Implemented Kubernetes deployment with horizontal scaling and comprehensive monitoring using Grafana

IntelliBlend | Gen AI & NLP chatbot

Aug 2024

- Developed production-ready NLP system using ChatOpenAI and LangChain, integrating 1536d embeddings in ChromaDB for efficient multi-source document analysis
- Enhanced RAG implementation with comprehensive evaluation, achieving 80%+ accuracy in factual correctness/context recall

Vaccination Reminder | Full-stack Web App

Jun 2024

- Built containerized Flask microservices with Docker and AWS Lambda for vaccination scheduling and automated reminders
- Designed interactive parent dashboard using JavaScript/jQuery for real-time schedule tracking and hospital discovery

Dungeon Crawler Game | Java & System Design

May 2024

- Crafted game engine using Java Spring and design patterns, implementing dynamic object placement for state management
- Attained 95% test coverage with Mockito/Cucumber BDD, reducing bugs by 40% through an automated testing pipeline

Voter API ecosystem | CLI app with Intra-API integration

Mar 2024

- Built a distributed voting system in Go with REST APIs, implementing service mesh for inter-service communication
- Orchestrated container deployment with Docker Compose, integrating automated testing and CI/CD pipeline

AI Game Development in Python

Nov 2023

- Optimized search algorithms (A*, IDS) for Rubik's Cube solver, achieving optimal solution paths with improved solving time
- Developed Othello AI using minimax with alpha-beta pruning, reaching a 95% win rate against baseline opponents
- Engineered Deep Q-Learning agent using PyTorch, achieving success in 8/10 attempts on maze navigation

Achievements and Certifications

- Dean's Ambassador** at Drexel University | Promoting Academic Excellence and Community Engagement
- Member of Upsilon Pi Epsilon Honor Society (CS)** | Awarded for outstanding academic performance at Drexel University
- Teaching Assistant** for Programming Foundations/Computer Vision, Drexel University
- Publication** at ICAST'21: [Advantages of Blockchain in Digital Forensic Evidence Management](#)
- SKY Volunteer** at Art of Living | Promoting Mental Well-being, and Meditation practices among campus community