

NEERAJ GHATE

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EDUCATION

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| M.S. Computer Science, University of Colorado Denver (CGPA: 3.7) | Expected May 2025 |
| • Coursework: Algorithms, Operating Systems, Computer Architecture, Computer Vision, Deep Learning, Computer Networks, Natural Language Processing, Generative AI, Software Project Management, Data Science | |
| B.E Electronics and Telecommunications, Pune University | Aug 2018 - May 2022 |

SKILLS AND CERTIFICATIONS

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| Programming Languages: C, C++, C#, Python, Java, JavaScript / TypeScript, HTML / CSS |
| Cloud & DevOps: Microsoft Azure (Storage, AKS, Functions, HDInsight, Cosmos DB), AWS (S3, EC2, Lambda, IAM), Kubernetes, Docker, Terraform, Jenkins, CI/CD, Public Cloud, Scalability, Distributed Systems, High-Performance Computing |
| Data & ML: Apache Spark, Hadoop, Apache Kafka, Snowflake, DynamoDB, SQL / NoSQL, ETL, Data Engineering, Data Analytics, Machine Learning, Deep Learning, Large Language Models (LLMs), TensorFlow, PyTorch, Keras, PowerBI, Tableau |
| Frameworks & Libraries: Node.js, React.js, Flask, Django, REST API, OpenShift Operators |
| Tools & OS: Linux, Git, Bash, VS Code, Terraform, Jenkins |
| Certification: AWS Certified Solutions Architect – Associate |

EXPERIENCE

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| Software Engineer, RealThings GmbH | July 2022 – July 2023 |
| • Architected distributed training pipelines on Azure Kubernetes Service (AKS) and optimized inference latency by 30% for production LLM workloads. | |
| • Built and optimized deep learning models using PyTorch and TensorFlow, contributing to efficient, production-ready pipelines. | |
| • Led CI/CD and DevOps integration with Docker, Kubernetes, and Terraform, raising release frequency by 25%. | |
| • Integrated Azure Blob Storage and Apache Kafka for scalable data ingestion supporting 100k images per minute. | |
| • Conducted code reviews to fix critical C++ modules, improving code quality by 40% and overall performance. | |
| • Delivered technical presentations to a 50-person team on scalability and HPC best practices. | |
| Data Engineer Intern, Clairvoyant | Aug 2021 – Sept 2021 |
| • Migrated 5 TB on-prem Hadoop workloads to Microsoft Azure HDInsight, improving scalability and reducing cost by 40%. | |
| • Optimized Spark jobs and designed OpenShift-based microservices to enable low-latency data access. | |
| • Built and optimized data pipelines in Python and Scala, ensuring efficient data retrieval and 20% performance gains. | |
| • Implemented data quality monitoring scripts with Kafka streams and Grafana dashboards. | |
| Web Development Intern, Edify Accelerators | Jun 2020 – Oct 2020 |
| • Designed a user-friendly web application using ReactJS and deployed on Azure App Service, improving performance by 40%. | |
| • Integrated frontend with Firebase for real-time updates and leveraged RESTful APIs hosted on Azure Functions. | |
| • Created a proof-of-concept website showcasing key services using modern JavaScript frameworks and responsive layouts. | |
| • Collaborated in agile sprints, demonstrating effective communication and flexibility across multi-disciplinary teams. | |

PROJECTS

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| Personalized Recommendation System (LLM-Enhanced) | Mar 2025 – Present |
| • Designed and developed a scalable recommendation engine for Netflix/Amazon-scale catalogs using collaborative filtering, content-based filtering, and deep learning models. | |
| • Leveraged Azure OpenAI Service (GPT-4) for large language model embeddings, boosting cold-start precision by 18%. | |
| • Implemented feedback loops and data analytics dashboards in PowerBI to surface user behavior insights to product teams. | |
| Cloud-Enabled Full Stack Application | Jan 2025 – Present |
| • Developed a microservices web application with React, Node.js, and Express, deployed via Docker and Kubernetes on Azure Kubernetes Service (AKS). | |
| • Implemented autoscaling storage layer with Azure Cosmos DB and integrated CI/CD using GitHub Actions and Terraform. | |
| • Instrumented distributed tracing and observability with OpenTelemetry, reducing MTTR by 35%. | |
| Text Summarization with BART | Aug 2024 – Dec 2024 |
| • Built a hybrid text summarization pipeline combining TextRank and BART, fine-tuned on Python documentation to improve ROUGE scores by 25%. | |
| • Containerized inference service on OpenShift and exposed REST endpoints for downstream analytics applications. | |