

BHARATH BHASKAR

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EDUCATION

Northeastern University

Master of Science in Information Systems

Boston, MA

Expected Apr 2025

- Relevant Coursework: Network Structures and Cloud Computing, Data Science Engineering, High Performance Computing, Data Management and Database Design

PES University

Bachelor of Technology in Electronics and Communications Engineering

Bangalore, India

Aug 2021

- Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Operating Systems

TECHNICAL SKILLS

Languages: Java, Python (Pandas, NumPy), SQL, JavaScript, C++, HTML, CSS, Typescript, Bash

Frameworks: Spring Boot, Flask, React, Node.js, Angular, OAuth, Service Mesh

DevOps: CI/CD, Docker, Kubernetes, Jenkins, Agile/SAFe, Terraform (HCL), AWS, Azure, GCP, API Gateway, Serverless Architecture

Machine Learning: PyTorch, TensorFlow, scikit-learn, Dask, Librosa, AI Ops

Developer & Data Tools: Git, Jenkins, Kafka, API Testing, Postman, REST/RESTful APIs, Swagger, Linux, Multithreading, NoSQL

EXPERIENCE

Software Development Engineer, Module Lead

Mphasis Ltd.

Jun 2021 – May 2023

Bangalore, India

- Architected and implemented RESTful APIs using Java/Spring Boot for FedEx's logistics platform, with JWT authentication and comprehensive API documentation, handling 1M+ daily requests
- Designed microservices architecture using Kafka as a message queue for real-time data streaming, implementing Service Mesh patterns for service-to-service communication, achieving 99.9% uptime and 30% improved response times
- Streamlined deployment and scalability of the data pipeline and backend services by leveraging Docker, Jenkins, Azure, and Kubernetes, implementing CI/CD pipelines and unit and integration tests, resulting in a 25% reduction in deployment time and a 15% decrease in operational costs
- Optimized algorithms for transport calculations and real-time data processing, enhancing efficiency and system performance
- Utilized JVM optimization techniques and multithreading programming to enhance application performance, resulting in 35% faster response times and improved resource utilization

Research Intern

Electronics and Radar Development Establishment

Sep 2020 – Mar 2021

Bangalore, India

- Developed algorithms for real-time data analysis in electronic counter-countermeasures, enhancing RADAR efficiency by 30%
- Enhanced threat detection accuracy by 25% using real-time signal processing techniques
- Performed EDA on radar datasets, identifying patterns and anomalies that improved predictive model accuracy by 30%
- Optimized deep learning models for improved radar data classification, resulting in a 25% accuracy boost and a 20% reduction in inference time

Analyst Intern

Calixto Systems

Jun 2020 – Jul 2020

Bangalore, India

- Designed and implemented scalable data pipelines to process 1M+ records daily using Python, SQL, and AWS services (S3, Lambda), streamlining data integration and reporting workflows
- Automated reporting solutions with PowerBI, improving real-time analysis and decision-making accuracy by 95%
- Migrated 500,000+ Salesforce CRM records to Snowflake, integrating with AWS Redshift to enhance cloud storage capacity

PROJECTS

Cloud Native WebApp | GCP, Flask, Python, Terraform, DNS, Packer, CI/CD | [GitHub](#)

- Developed RESTful APIs with authentication mechanisms (JWT), ensuring secure data management
- Implemented end-to-end API testing with pytest, achieving 90% test coverage
- Orchestrated CI/CD pipelines using GitHub Actions, integrating with GCP services and KMS encryption
- Reduced deployment time by 50% through optimized Compute Engine images with Packer
- Enhanced observability using GCP's Cloud Logging & configured autoscaling and load balancing ensuring reliability and scalability
- Leveraged GCP Cloud Functions for serverless event-driven architecture, reducing operational overhead by 40%

Jan 2024 – May 2024

Lung Cancer Prediction | Python, Pandas, NumPy, scikit-learn | [GitHub](#)

- Achieved 95% accuracy using multinomial logistic regression and AutoML on a dataset of 1,000+ records
- Identified key predictors associated with a 1.5x increase in lung cancer risk among non-smokers

Feb 2024 – Apr 2024

Distributed Deep Learning for Audio-Based Classification | PyTorch, Librosa, Dask | [GitHub](#)

- Developed a deep learning model using PyTorch to classify bird species from a large-scale audio dataset (26 GB of bird songs), converting audio recordings into spectrograms and applying data augmentation to enhance model generalization
- Leveraged PyTorch Distributed Data Parallel (DDP) to efficiently train the model across multiple GPUs, significantly reducing training time and optimizing computational resources

Sep 2024 – Present