MOHAMMED EZHAN

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EDUCATION

M.S. Computer Science | Northeastern University, Boston, MA   Expected May 2027
Relevant Coursework: Program Design Paradigm, Algorithms and Data Structures

B.E. Computer Science and Engineering | JSS Science & Technology University, India | GPA: **3.72/4.0**   Jul 2023
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Management, Software Engineering

WORK EXPERIENCE

JPMorgan Chase & Co.   Aug 2023 – Aug 2025
Software Engineer 1   *Bangalore, India*
- Reduced operational overhead by 100+ hours monthly by developing payments tracking dashboard, replacing manual tracking of transmission files and payment reconciliation across middle office teams serving 5,000+ daily users.
- Improved authentication efficiency by 40% through OAuth 2.0-based Identity and Access Management system, enabling secure role-based access for 10,000+ employees and centralizing control across 12 internal services.
- Developing ML system for matching invoices to payment advices using LangChain to automate 80% of reconciliation workflows, reducing processing time from 2 hours to 15 minutes for $10M+ daily volumes across 5 currencies.

JPMorgan Chase & Co.   Jan 2023 – Jul 2023
Software Engineering Intern   *Bangalore, India*
- Achieved $150K+ annual infrastructure savings by containerizing OCR system with Kubernetes orchestration and horizontal pod autoscaling, reducing cloud costs by 30% and container startup time from 3 minutes to 45 seconds.
- Modernized OCR system by migrating from Java 8 to Java 17 and Spring Boot 3, achieving over 30% faster processing and 25% reduced memory usage for 1M+ daily documents, and eliminating 200+ deprecated dependencies.

Lykiq Labs Private Limited   Aug 2021 – Oct 2021
Mobile App Developer Intern   *Mysore, India*
- Delivered production-ready parking app serving 1,000+ daily users by developing 15+ screens, reducing booking time from 5 minutes to 30 seconds while achieving 35% increased retention through real-time Firebase updates.

PROJECTS

Alzheimer's Disease Detection using Deep Learning   Nov 2022 – Mar 2023
- Developed CNN-based web application achieving 97.7% validation accuracy for early Alzheimer's detection from MRI scans, reducing analysis time from 2 hours to 5 minutes via automated image preprocessing and real-time inference.
- Built end-to-end ML pipeline processing 10,000+ MRI images using transfer learning (ResNet50) and data augmentation, with React frontend and Flask API delivering results with confidence scores in under 30 seconds.

SJCE-GPA Mobile App - 8k+ downloads, 4.9★ rating.   Apr 2021 – Jun 2021
- Built mobile app serving 8,000+ engineering students with 99% crash-free sessions, simplifying GPA calculations for 20+ courses, reducing calculation errors by 95% while featuring secure grade tracking and semester-wise analytics.

CERTIFICATIONS

AWS Certified Solutions Architect-Associate, AWS | Credential ID: 8783225f3d284967b5856ce298e68da6   July 2025
Certified Kubernetes Application Developer, The Linux Foundation | Credential ID: LF-g2huhxkl71   Mar 2025
AWS Certified Cloud Practitioner, AWS | Credential ID: 749HHSE14BVEQ0SK   Mar 2023

SKILLS

Programming Languages:	Java, Python, JavaScript, TypeScript, C++, C, SQL, HTML5, CSS3
Frameworks/Libraries:	Spring Boot, React.js, Flutter, Node.js, Flask, Express.js, RESTful APIs, JUnit, Mockito
Databases & Messaging:	MySQL, MongoDB, Redis, Cassandra, Firebase, Kafka, Elasticsearch
ML/AI & Data:	TensorFlow, PyTorch, Keras, scikit-learn, pandas, NumPy, LangChain, OpenCV
Cloud & DevOps:	AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, Git, Grafana, Dynatrace