YADHUKRISHNAN PANKAJAKSHAN (KRISH)

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EDUCATION

Northeastern University   Aug 2023 – Apr 2025
Master of Science in Computer Science, GPA: 3.95/4.00   *Boston, MA, USA*

Relevant Coursework: Algorithms, Systems, Distributed Systems, Mobile Development, AI

Anna University   Aug 2017 – Apr 2021
Bachelor of Engineering in Computer Science, GPA: 8.42/10.00   *Chennai, India*

Relevant Coursework: Data Structures, Cloud Computing, Software Engineering, ML, Computer Networks

RELEVANT SKILLS

Languages & Frameworks: Go, Java, Javascript, Python, C++, Ruby, React, Vuejs, FastAPI
Other Tools: Linux, Docker, Kubernetes, Jenkins, Terraform, CI/CD, AWS, GCP, PostgreSQL, MongoDB, Redis

PROFESSIONAL EXPERIENCE

Teaching Assistant   Jan 2024 – Apr 2025
Northeastern University   *Boston, MA*

- Taught 4 different courses for 100+ students across 4 semesters (Algorithms, Programming, Systems, Data Science).
- Automated Python-based lab grading pipelines using Github Actions, improving grading efficiency exponentially.
- Developed a FAT table simulator in C as part of the final exam for the coursework of Computer Systems (CS5600).

Software Engineer   Aug 2021 – Aug 2023
Barclays   *Pune, India*

- Saved $950/week and reduced diagnostic time by 65% by automating backend validation and reconciliation checks using JCL scripts in a mainframe system responsible for daily transaction matching with external vendors.
- Developed a React dashboard integrating monitoring and logging features, reducing issue triage time by 40%.
- Reduced production bugs by 30% by building automated test pipelines in Jenkins for JCL jobs in a batch processing environment that handled financial transaction marking and discrepancy resolution.
- Cut cross-team coordination overhead by 30% by developing REST APIs in Spring to facilitate upstream systems in a workflow used by audit and compliance teams.
- Led the team in migrating to modern mainframe development tools through rigorous testing and documentation, enhancing developer experience and satisfaction by 100%.
- Improved throughput by 90% and cut deployment by 15 days by optimizing COBOL batch jobs ($O(n^2)$ to $O(n)$) and delivering time-critical modules for transaction marking and exception handling.

TECHNICAL PROJECTS

RapidTriage AI | *React Native, Golang*   Jan 2025 – Apr 2025

- Developed an AI-powered agent framework that triages patient cases based on urgency of emergency.
- Engineered an architecture with multiple models, enabling dynamic task routing and integration with custom tools.

ShareThings | *Node.js, Vue.js, AWS Lambda, S3, RDS*   Mar 2025 – Apr 2025

- Developed a web-based file sharing platform enabling users to upload, compress, and share files using Vuejs.
- Built serverless backend using Node.js with AWS Lambda to handle access logic and S3, RDS for storage.

Job Search Assistant | *Next.js, NestJS*   Dec 2024 – Feb 2025

- Built a full-stack web application with Nextjs and NestJS to manage job listings and application information.

LEADERSHIP & ACHIEVEMENTS

- **Barclays Hackathon (2022):** Led an 8-member team to build a assistant, achieved 1st place among 108 participants and personally received the award for the best scrum master for enforcing rigorous testing practices.