

Hemnaath Balasubramani

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Available: Co-op starting January 2027

Education

Northeastern University, Boston, MA Jan 2026 – May 2028
M.S. in Computer Science, Khoury College of Computer Sciences

Sathyabama Institute of Science and Technology, Chennai, India Jul 2020 – May 2024
B.E. in Computer Science, CGPA: 8.39/10.0
Related courses: Data Structures, Object Oriented Programming, Databases, Software Engineering

Technical Skills

Languages: Java, Python, Go, R, SQL, Bash, Linux Command Line

Testing & CI/CD: Selenium, Cucumber, TestNG, Jenkins, Postman, Git

AI & Machine Learning: LLM Integration, OpenAI SDK, RAG Pipelines, Agentic Workflows, LLM Evaluation, Feature Embedding

Work Experience

EPAM Systems, Hyderabad, India Jul 2024 – Dec 2025
Junior Software Test Automation Engineer (Client: Uber, Inc.)

- Automated and debugged complex test cases in Go for Uber's Fares team, evaluating production codebases and identifying logical errors across high-scale services.
- Migrated legacy test suites to Cucumber and TestNG, improving CI/CD integration and reducing flaky failures across regression runs.
- Developed automated evaluation frameworks to benchmark AI models, providing structured, actionable feedback to cross-functional engineering teams.
- Collaborated directly with developers to resolve test failures and increase code coverage, applying clear technical communication and root-cause analysis.

Projects

Job Searcher — Multi-User LLM-Based Job-Matching Platform github.com/hemnaath04/job-searcher
Python, FastAPI, MongoDB, OpenAI SDK, nginx, systemd, DigitalOcean

- Built and deployed a multi-user web app that pulls postings from public job boards, scores them against an uploaded resume via an LLM, and emails users a digest of top matches.
- Designed a parallel fetcher and streaming scoring pipeline with atomic MongoDB worker claims; cut fetch time from ~2 min to ~10 s and surfaces matches live as they score.
- Hardened the API (magic-byte validation, rate limits, signed sessions, loopback-only backend behind nginx + TLS) and wrote idempotent Bash deploys with end-to-end Python smoke tests.

Infant Cry Sound Detection System — Deep Learning Audio Classifier Jan 2024 – May 2024

- Built a deep generative learning model with statistical feature embedding to classify infant cry types from raw audio for early-diagnosis applications; validated across real-world acoustic environments.

Interests / Activities

- Multi-sport zonal/district medalist in shot put, football, and badminton; cricket officiating experience in India.
- Active in campus organizations and social-media-driven community initiatives; coordinated outreach for student events.