Priyadharshan Sengutuvan

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EDUCATION

Northeastern University, Khoury College of Computer Sciences — Boston, MA
Master of Science in Data Science — May 2026
Relevant Coursework: Algorithms, Web Development, Database Systems, Machine Learning

Sri Krishna College of Engineering and Technology — Coimbatore, India
Bachelor of Technology in Information Technology — May 2023

SKILLS

Languages: TypeScript, JavaScript, Python, C#, Java, SQL, HTML/CSS
Frontend: React, Next.js, Tailwind CSS, Bootstrap, Responsive Design
Backend: Node.js, .NET, REST APIs, FastAPI, MVC Architecture
Databases: PostgreSQL, SQL Server, MySQL, Neo4j
Tools: Git, Docker, Azure DevOps, GCP, CI/CD, Swagger

EXPERIENCE

AriesView — Boston, MA (Remote)
Associate Software Engineer — Sept 2025 – Dec 2025

- Engineered full-stack financial analytics platform with TypeScript, React, and Next.js serving 1K+ investors analyzing real estate performance.
- Architected Financial Hub with complex state management and real-time NOI/cap rate visualizations, integrating backend APIs for dynamic tracking.
- Created reusable component library with Tailwind CSS and comprehensive unit tests accelerating feature development by 40% while ensuring design consistency and code quality.
- Integrated Neo4j graph database for property relationships, optimizing GraphQL queries to achieve sub-second response times.

Psiog Digital Private Limited — Chennai, India
Software Engineer Intern — Feb 2023 – Aug 2023

- Delivered full-stack applications in React and C#/.NET with MVC architecture from requirements through production deployment.
- Constructed automated dashboards replacing manual workflows, cutting report generation time by 90% for operations team.
- Designed REST APIs with Swagger documentation enabling seamless frontend-backend integration for real-time access.
- Refactored SQL queries and added strategic indexes, reducing dashboard load times from 8s to under 2s.

PROJECTS

Brain Tumor Detection System — *Python, TensorFlow, Flask, Computer Vision*

- Led 4-person team building ML-powered medical imaging tool achieving 98% accuracy on MRI scans using CNN architecture.
- Deployed Flask API with comprehensive test suite, image upload, preprocessing pipeline, and sub-3s inference for real-time tumor detection.
- Created responsive interface for medical professionals to visualize detection results with confidence scores and heatmaps.

Movie Recommendation System — *Python, SQL, JavaScript, Collaborative Filtering*

- Designed recommendation engine on MovieLens 1M+ ratings dataset, implementing user-based and item-based filtering algorithms.
- Developed interactive dashboard visualizing rating patterns and recommendation metrics with JavaScript and BI tools.
- Optimized algorithm reducing query time by 60% through efficient data structures and database indexing.

Agro Distributor E-Commerce Platform — *C#, JavaScript, SQL Server, Swagger*

- Launched agricultural marketplace with role-based authentication connecting farmers and buyers across 10K+ product listings.
- Engineered C# REST API with Swagger specs handling product search, user management, and order processing workflows.
- Implemented JavaScript search with real-time filtering by category, location, and price for improved user experience.