

Keshav Worathur

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Education & Certifications

Master of Science in Computer Science

Georgia Institute of Technology

- Relevant Coursework: Big Data Systems, Machine Learning

Aug 2025. - Present

Atlanta, GA

Honours Bachelor of Science in Computer Science

University of Toronto | GPA 3.94/4; Dean's List

- Relevant Coursework: Machine Learning, Scalable Computing, Intro to Databases

Sep 2020. - Jun . 2024

Mississauga, ON

AWS Certified Solutions Architect - Associate

Apr. 2025

ASTQB Certified Tester Foundation Level

Sep. 2024

Awards

Best Poster Award - UTMSU Undergraduate Research Symposium

Apr. 2024

- Awarded the best poster award and a prize of CAD 1,000\$ for poster presenting work on training deep learning models for Brain Tumor Classification.

Experience

QA Automation Specialist

Lenovo Testing Center of Excellence (TCOE)

- Designed an automation framework using **Playwright** for end-to-end testing of Freedom Mobile's (client) wireless consumer applications, reducing QA regression execution time per release by ~ 80 hours.
- Streamlined the QA process for AWS microservice migration via targeted **combinatorial testing**, coordinating with non-technical stakeholders (credit analysts) to troubleshoot high-priority defects.
- Trained a team of ten manual testers in **Jenkins** for automated script execution, enhancing team productivity.

Jul. 2024 - Aug. 2025

Toronto, ON

Computational Research Assistant

Gene2Lead

- Constructed optimized data pipelines in **PyTorch** that expedited feature extraction from terabyte-scale protein data by 32%, accelerating downstream analysis for a research team of medicinal chemists.

Aug. 2024 - Jul. 2025

Toronto, ON

Cloud Developer

Simple IT Firm

- Automated the extraction of information from personal and corporate tax returns using AWS **Lambda** and **Textract**, decreasing manual loan review time by 8% and accelerating the overall loan approval workflow.
- Released custom web scraping tools to extract FAQ data from eight company websites and store the data in a **vector database** for fine tuning AI chatbot applications.

Jan. 2024 - Jul. 2024

Toronto, ON

Personal Projects

PaintParty | Javascript, AWS (Lambda, DynamoDB) | [Code](#)

Nov. 2023 - Dec. 2023

- Developed a web application for thousands of users to simultaneously paint pixels of a large canvas, broadcasting updates to all users in real-time using a **WebSockets** API.
- Leveraged AWS serverless services such as **Lambda** and **API Gateway** to scale the system to 150k+ users, achieving canvas update latency of less than one second for 95% of users.
- Automated provisioning of networking, storage, and compute resources using a **CloudFormation** template, reducing time to launch the system by 60%.

Deep Learning-Based Brain Tumor Classification | [Poster Link](#)

Sep. 2023 - Dec. 2023

- Collaborated with a team of three researchers to develop an automatic tool for brain tumor classification using a custom CNN architecture.
- Engineered a custom data processing pipeline in **Tensorflow** for processing 2D slices of MRI scans in batches.
- Explored approaches for visualizing the model's decision-making processes using state-of-the-art techniques such as GradCAM.