

Ganesh Prabakaran

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EDUCATION

M.S. in Computer Science and Engineering (GPA: 3.6/4.0) State University of New York, Buffalo, NY	Jan 2024 – Jun-2025
B.E. in Computer Science and Engineering (GPA: 8.1/10.0) Anna University, Tamil Nadu, India	Sep 2017 – Jun 2021

TECHNICAL SKILLS

Languages: GOSU, Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML, R
Web Development: Spring Boot, MVC, React, Angular, Flask, Hibernate, Maven, Node.js
Databases: MySQL, MongoDB, PostgreSQL, NoSQL
Cloud and DevOps: AWS, Docker, Kubernetes, Azure
ML/Data Engineering: TensorFlow, Keras, PyTorch, Scikit-Learn, CUDA, Kafka, Spark, Hadoop
Tools/Technologies: Guidewire Studio, COLMAP, Git, REST API, Unix/Linux, Postman, Jira, JUnit

EXPERIENCE

State University of New York Research Assistant / Graduate Assistant	Buffalo, NY May 2025 – Present
<ul style="list-style-type: none">Optimizing high fidelity 3D reconstruction pipeline combining NeRF and multi-view stereo; fine-tuned and debugged research scripts and implementing custom utilities to extract depth/disparity and generate point clouds from real captures, and documented results in evaluation reports.Assisted Professor Naeem Maroof in teaching CSE 587 (Data Intensive Computing); collaborated with TAs to clarify complex concepts for 200+ students, graded assignments/projects/exams, and provided constructive feedback to improve students' understanding of large-scale data processing.	
Hexaware Technologies Associate Software Engineer	Chennai, TN Mar 2022 – Nov 2023
<ul style="list-style-type: none">Worked on integration of third-party VIN services and customization of Refresh/Retrieve flow to auto-populate vehicle and policy data from external rating engines reducing manual entry errors and effort by 30%.Collaborated on integrating SmartCOMM with Guidewire PolicyCenter by configuring document triggers and mapping data fields for automated generation of policy schedules and endorsement letters, reducing manual document preparation time by 30% and accelerating delivery to customers.Implemented 10+ PCF views and pages for endorsements and mid-term adjustments to enhance user navigation and cutting support tickets by 18% while ensuring 100% compliance with bundled-product regulatory requirements.Designed efficient test plans, cases, and reports—adaptable for automation—that boosted productivity by 45%, and led cross-team JIRA triage to uncover 50+ critical to high priority defects, preventing critical post-deployment bugs by 21%.	

PROJECTS

TransLingua: Real-Time ASL to Text <i>Python, OpenCV, MediaPipe, TensorFlow</i>	Apr 2025
<ul style="list-style-type: none">Designed a real-time pipeline that fuses MediaPipe hand-landmark tracking with a motion-based switch to route inputs to either a CNN (static signs) or LSTM (dynamic phrases).Delivered an 92% overall accuracy system running at 30 FPS on CPU, with robustness to varied lighting and signer profiles.	
Text Summarization using Deep Learning <i>Python, Keras, TensorFlow</i>	Jan 2025
<ul style="list-style-type: none">Trained LSTM, GRU, RNN models on Hugging Face data — LSTM achieved best ROUGE score, improving summary precision by 18% through hyperparameter tuning and fine-tuning.Brought down document processing time by 30% with a Flask API, streamlining the summarization process for end-users.	
Personalised Job Recommendation System <i>Python, NumPy, Pandas, Scikit-learn, Flask</i>	May 2024
<ul style="list-style-type: none">Enhanced recommendation accuracy by 22% with SVM on a 1.3M LinkedIn job listings dataset and improved user relevance through hyperparameter optimization.Deployed Flask web app for real-time recs and shortened job search time by 40% for users.	