

JEEVA RAMASAMY

848-203-6550 | jeevanandan@gmail.com | linkedin/jeeva-ramasamy | github/JeevanandanRamasamy | jeeva-ramasamy.netlify.app

EDUCATION

Georgia Institute of Technology <i>Master of Science in Computer Science (Machine Learning Specialization)</i> Coursework: Machine Learning, ML Theory, Computer Vision, Data & Visual Analytics	Aug 2025 – May 2027 Atlanta, GA
Rutgers University–New Brunswick GPA: 4.0/4.0 <i>Bachelor of Science in Computer Science & Data Science (Honors)</i>	Sep 2021 – May 2025 New Brunswick, NJ

EXPERIENCE

Visible <i>Software Engineer Intern</i> <ul style="list-style-type: none">Engineered real-time chat system with React/Django/Ably, supporting 7,000+ active users with seamless messaging. Reduced backend load by 60% through event-driven architecture and asynchronous processing.Integrated MongoDB Atlas for message persistence, enabling high-throughput, low-latency reads/writes, by implementing optimized indexing strategies that improved query performance by 45%.Designed and integrated REST APIs with secure authentication, improving cross-service communication and maintainability.Conducted rigorous performance and stress testing, scaling system to 100,000 concurrent users and 8,000 messages/sec while maintaining <200ms latency and <1% failure rate.Collaborated with team to deploy CI/CD pipelines, cutting deployment time by 30% and improving release reliability.	Jun 2025 – Aug 2025 Los Angeles, CA
Rutgers University–New Brunswick <i>Machine Learning Research Intern</i> <ul style="list-style-type: none">Improved short-term solar irradiance forecasting accuracy by 20%-39% for energy grids by engineering a scalable deep learning pipeline using CNNs on sky image sequences.Automated refugee settlement detection via Python ML pipelines using satellite imagery (Google Cloud), improving scalability over manual mapping and achieving 82% classification accuracy.Implemented data augmentation pipeline with OpenCV, enhancing model robustness against varied conditions.	Sep 2024 – May 2025 New Brunswick, NJ
New Jersey Economic Development Authority <i>NJ Wind Institute Research Fellow</i> <ul style="list-style-type: none">Performed exploratory data analysis and feature engineering on 100GB+ environmental datasets to identify North Atlantic Right Whale (NARW) presence patterns to support marine conservation and offshore wind planning.Trained and evaluated ensemble supervised learning models (Random Forest/AdaBoost) to predict whale presence, boosting recall from 16% to 56.5% and F1-score from 0.16 to 0.66.Co-authored high-impact publication in Nature Scientific Reports with 97th percentile reach and international press coverage.	Jun 2023 – Apr 2024 New Brunswick, NJ

PROJECTS

RU Super Scheduler GitHub <i>Python, JavaScript, REST APIs, React, Flask, MariaDB</i> <ul style="list-style-type: none">Developed a full-stack scheduling and degree planning platform to simplify the fragmented course selection process at Rutgers.Devised modular backend architecture enabling scalable microservice additions (e.g., SPN tracker, audit tool).Built a context-aware AI assistant using Google Gemini API to suggest courses and track degree progress, reducing average course planning time by 40%.
Image Colorizer GitHub <i>Python, PyTorch, OpenCV</i> <ul style="list-style-type: none">Designed a CNN for colorization of grayscale images in the CIELAB space, leveraging perceptual loss for realistic outputs.Curated and preprocessed 7,000+ landscape images from Kaggle, automating resizing, normalization, and augmentation.Achieved over 90% average per-pixel RGB similarity between generated and target images on unseen data.

SKILLS

Languages	Python, Java, TypeScript/JavaScript, C/C++, R, SQL, XML, HTML/CSS, Bash
Frameworks	React, Node.js, Express, Django, Flask, FastAPI, PyTorch, TensorFlow, Scikit-learn, Pandas, OpenCV
Tools	Git, Docker, Kubernetes, AWS, PostgreSQL, MongoDB, Firebase, Linux, REST APIs, CI/CD pipelines
Concepts	Data Structures & Algorithms, System Design, Cloud Computing, OOP, Unit Testing, Agile

ACHIEVEMENTS

Certifications: AWS Certified Developer – Associate (Expires Jan 2027)
Awards: Summa Cum Laude, Matthew Leydt Society (top 2% of Rutgers Graduates), Segal Foundation Scholarship, Dean's Excellence Award, Rutgers Data League Winner (1st place / 276 participants)
Publications: Nature Scientific Reports, 2024 – “Machine learning for modeling North Atlantic right whale presence...”