# Varun Hosadurga Harish (Open to relocation)

J 934-219-3905 

■ vahoha12@gmail.com 

In linkedin.com/varun-harish1998 

Q github.com/VarunHarish98

# Education

### Stony Brook University

Master of Science in Computer Engineering (GPA: 3.9 / 4.00)

**RNS Institute of Technology** 

Aug 2023 - May 2025 Stony Brook, New York

Aug 2016 - Jul 2020

Bachelor of Engineering in Electronics and Communication Engineering (GPA: 8.7 / 10)

Bengaluru, India

• Relevant Coursework: Data Structures and Algorithms (Java), Computer Vision, Practical ML and Al, Object Oriented Programming, Database systems, Operating Systems, Software Engineering, Computer Networks.

# Technical Skills

Languages: Java, Javascript, TypeScript, Python, C, HTML, CSS, SQL, ASP.Net, jQuery.

Development Tools: GIT/Github, Jira, Jenkins, GithubActions, Eclipse, Postman, KendoUI, Splunk, JSON, AJAX. Technologies: React.js, GraphQL, Django, Nodejs, Express.js, Agile methodology, Tailwind CSS, Kubernetes, AWS, Webpack, Vite, Redis, NoSQL, RESTful API, Microservices, ELK, MongoDB, T-SQL, ECS, EC2, PostgreSQL, SDLC.

# Experience

Dec 2020 - Aug 2022 Accenture

Software Engineer (Full Stack Engineer) - Javascript, React.js, Node.js, ELK, Redis, NoSQL, Kubernetes

Bangalore, India

- Led a team of 7 in integrating third-party live agent escalation APIs into AI chatbot MVP, designing optimized RESTful APIs with a polling mechanism to reduce delayed response time by 14%.
- Redesigned APIs to achieve a 35% reduction in response time through optimized REST protocols and improved Cassandra database performance by 40% using advanced NoSQL queries, validated with Dynatrace.
- Developed responsive React.js components, leveraging Context API for state management, Web UI components and React hooks (useRef) for input handling, improving user experience by 15% as measured through Quantum Metric
- Directed the implementation of a real-time monitoring dashboard using the **ELK stack** across five **microservices**, collaborating with engineering teams to integrate intent-specific logs and reduce incident response time by 30%.
- Optimized chatbot performance by implementing a Redis-based caching strategy to store frequently accessed query results, improving system scalability and enhancing user experience by 18%.
- Resolved a critical Severity 1 production issue causing timeouts and disrupted chatbot-live agent connections within 4 hours. Identified and fixed a header size error using ELK stack and Postman logs.
- Implemented Postman automation test suite and Swagger to validate API endpoints, ensuring reliability and secure server-client interactions and overall system stability.

# **Projects**

#### Waste Classification System | Python, OpenCV, Machine Learning

- Designed and implemented an advanced image classification pipeline utilizing feature extraction techniques (color histograms, HOG, LBP, and shape analysis), achieving 84% accuracy in multi-class classification tasks.
- Developed and evaluated ML models (Random Forest, SVM, k-NN) using cross-validation and hyperparameter tuning, optimizing model performance and improving system robustness for real-world image datasets.

#### MovieSage | Full Stack Application - React.js, Redux, Tailwind, Firebase, Vercel, OpenAl

- Built a movie discovery feature using the TMDB API for movie data and OpenAI API for improved search results, attracting over 100 monthly users by providing smarter, more personalized movie recommendations.
- Developed a streamlined UI with React is and Redux, increasing user retention by 10% through a simplified Firebase login process and enhancing overall app engagement.

# **3D Immersive Showcase** | WebGL, Three.js, React.js, Google Analytics | [Website]

- Engineered a 3D interactive portfolio website using React.js and Three.js, featuring advanced Web Graphics Library rendered animations, and a feature flag for toggling the 3D opening sequence.
- Integrated Google Analytics to track button clicks and scroll events, delivering insights into user interaction patterns, analyzing user behavior to optimize the project showcases, work experience, and education sections.

# **Achievements**