

Varun Hosadurga Harish

📞 934-219-3905 ✉️ varunharish98@gmail.com 🔗 linkedin.com/varun-harish1998 🐙 github.com/VarunHarish98

Education

Stony Brook University

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

Aug 2023 - May 2025

Stony Brook, New York

RNS Institute of Technology

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

Aug 2016 - Jul 2020

Bengaluru, India

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

Technical Skills

Languages: Java, Javascript, TypeScript, Python, C, HTML, CSS, SQL

Development Tools: GIT/Github, Jira, Jenkins, Visual Studio, Eclipse, Postman

Technologies: React.js, Django, Nodejs, Express.js, Bootstrap, Tailwind CSS, Kubernetes, Docker, Redis, NoSQL, REST API, Microservices, ELK, Jest, MongoDB, Cassandra, Linux, Firebase, Software Development Lifecycle, Agile Methodologies

Experience

Accenture

Dec 2020 – Aug 2022

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 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, React hooks (useRef) for input handling, and custom hooks, 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

- 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 and Redux, increasing user retention by 10% through a simplified Firebase login process and enhancing overall app engagement.

Project Name 3 | WebGL, Three.js, React.js, Google Analytics

- Engineered a 3D interactive portfolio website using React 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

Awarded Best Employee for "Client Value Creation" 2022 at Accenture.