

# Varun Hosadurga Harish

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Stony Brook, NY (Open to relocation)

## EDUCATION

### Stony Brook University

Master of Science in Computer Engineering (CGPA - 3.8/4)

**Courses:** Data Structures and Algorithms, Computer Vision, Practical ML and AI.

### RNS Institute of Technology

Bachelor of Engineering in Electronics and Communication

Stony Brook, NY

Aug 2023 – Dec 2024 (Expected)

Bengaluru, India

Aug 2016 – Jul 2020

## EXPERIENCE

### Accenture

Associate Software Engineer - AT&T

Dec 2020 - Aug 2022

Bengaluru, India

- **ChatBot UI Development:** Achieved an 85% increase in customer satisfaction and retention rates by integrating payment and billing features into a chatbot application using React and NodeJS. Implemented throttle logic and A/B testing methodologies to optimize performance and enhance user satisfaction.
- **API Development:** Designed and authored a REST API within a microservices architecture, managing over 150,000 customer data feeds leading to the creation of three new features, generating yearly revenue of \$600,000.
- **Performance Optimization:** Reduced database load and response time by 18% by implementing a Redis-based caching strategy to efficiently store frequently accessed data, enhancing system performance.
- **Log Dashboard Visualization:** Developed a monitoring solution using ELK (Elasticsearch, Logstash, Kibana) stack to analyze real-time logs across 5 microservices, resulting in 30% improvement in incident response time.
- **Database Optimization:** Resolved scalability and performance issues in Cassandra database by optimizing queries to mitigate the tombstone effects, resulting in 15% enhancement in performance and response time.
- **Test Suite Creation:** Created an automated test suite using Postman to streamline production validation processes, achieving 20% reduction in manual efforts and demonstrating a discernible improvement in efficiency.

## PROJECTS

### Clippify | React, Supabase, ShadCN, Vite, Tailwind CSS | [\[GitHub\]](#)

Jun 2024 - Present

- Engineered a Full Stack URL shortening platform using React and Supabase, simplifying complex URLs for easier sharing and tracking, and added QR code visibility for quick access.
- Designed and integrated visual dashboards to monitor link usage and performance, empowering users with actionable insights for optimizing online campaigns.

### 3D Portfolio | React, Three.js, Email.js, PostHog, Tailwind CSS | [\[Website\]](#) | [\[GitHub\]](#)

Jun 2024 - Jul 2024

- Engineered a 3D interactive portfolio website using React and Three.js, featuring advanced Web Graphics Library rendered animations, a feature flag for toggling the 3D opening sequence.
- Deployed Google Analytics to monitor button clicks and scroll events, providing actionable insights on user behavior and enhancing project showcases, work experience, and education sections, increasing user engagement by 13%.
- Created a direct email feature using Email.js, enhancing user engagement, showcasing communication expertise.

### MovieSage | React, Redux, Tailwind CSS, Firebase, Open AI | [\[Website\]](#) | [\[GitHub\]](#)

Nov 2023 - Jan 2023

- Customized a movie discovery feature by integrating a TMDb API to access comprehensive movie lists and leveraging the OpenAI API for intelligent movie searches, resulting in a monthly engagement of over 100 visitors.
- Launched a refined UI with React and Redux, focusing on user experience and achieving a 10% increase in user retention by streamlining the login process via Firebase.

## TECHNICAL SKILLS

**Languages:** JavaScript, HTML, CSS, Java, Python, SQL.

**Frameworks:** React, Node.js, Tailwind CSS, Express, ELK Stack, AWS, MongoDB, Cassandra and Redis.

**Developer Tools:** Git, Docker, Kubernetes, VS Code, IntelliJ, Eclipse, Postman.

**Other Skills:** Microservices, REST APIs, JSON, Object Oriented Programming, Algorithm and Data Structures.

## PUBLICATIONS

H H, Varun, et.al., “**Driver Alert System**” International Research Journal of Modernization in Engineering Technology and Science, vol. 2, Issue: 4, April 2020, e-ISSN 2582-5208.