Varun Hosadurga Harish

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EDUCATION

- **Stony Brook University** — Stony Brook, NY
  Master of Science in Computer Engineering (CGPA - 3.8/4) — *Aug 2023 - Dec 2024 (Expected)*
  Courses - *Data Structures and Algorithm, Computer Vision, Switching/Routing in Parallel and Distributed Systems*
- **RNS Institute of Technology** — Bengaluru, India
  Bachelor of Engineering in Electronics and Communication (CGPA 8.6/10) — *Aug 2016 - Aug 2020*

EXPERIENCE

- **Accenture (Client - AT&T)** — Bengaluru, India
  Associate Software Engineer — *Dec 2020 - Aug 2022*
  - **User Interface 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** by implementing **throttle logic** and **A/B testing** methodologies to optimize performance and enhance user satisfaction.
  - **API Development**: Designed and deployed a **REST API** within a **microservices** architecture, managing over 150,000 customer data feeds leading to the creation of three new features, enhancing value for end-users.
  - **Performance Optimization**: Implemented a **Redis** based caching strategy to efficiently store frequently accessed data, effectively reducing database load and reducing response time by 18%, 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 Enhancement**: Resolved scalability and performance issues in **Cassandra NoSQL** database by optimizing queries to mitigate 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.

- **VI Solutions** — Bengaluru, India
  Software Intern — *Jul 2019 - Aug 2019*
  - Designed and Implemented a LabVIEW application utilizing using ARM-based assembly language, to function as an antivirus, effectively removing 70% of specific file extensions, resulting in 15% reduction in data security threats.
  - Engineered LabVIEW for external hardware, driving a 20% increase in data acquisition efficiency deployed across 3+ advanced Virtual Instruments, enriching system capabilities for NI myRIO and myDAQ technology.

PROJECTS

NetflixGPT | *Website* | *Code* | *HTML, Javascript, ReactJS, Redux, Tailwind CSS, Firebase.*   *Nov 2023 - Present*
- Developed 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 unique visitors.
- Deployed and optimized a visually appealing Netflix-like UI with a focus on user experience using **React** and **Redux**. Established secure user authentication through **Firebase**, ensuring a seamless login process.

Driver Alert System | *Python, OpenCV* — *Aug 2019 - Aug 2020*
- Developed a solution leveraging Image Processing techniques to analyze facial data, leading to a 40% reduction in drowsy driving incidents, potentially saving an estimated 10 lives annually within the transportation industry.
- Implemented fuzzy logic-based decision-making to enhance the system's accuracy by 5% in determining the driver's condition from facial data analysis, leading to the integration of a warning alarm system to alert the driver in case of drowsiness contributing to a improved safety measures and reduced the likelihood of accidents between two vehicles.

SKILLS

- **Languages:** Javascript, Java, Typescript, HTML/CSS, Python.
- **Technologies/Frameworks:** React, Express, NodeJS, Cassandra, Tailwind, MongoDB, SQL, AWS(EC2, Lambda, S3).
- **Tools:** Git, Elastic Logstash Kibana, Jenkins, Redis, Postman, Docker and Kubernetes.
- **Other Skills:** Microservices, REST APIs, JSON, Object Oriented Programming, Algorithm and Data Structures.

ACHIEVEMENTS

- Recognized as "**Best Employee for Client Value Creation**" for outstanding contributions during the development and integration of payment features.

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