

YUKESH RAGHAVAN

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Education

Stony Brook University

Aug 2022 – May 2024

Master of Science in Computer Engineering

GPA: 3.73/4.0

- Coursework: Data Structures and Algorithms, Distributed Systems, ML And AI, Data Mining, Mobile Cloud Computing.

SRM Institute of Science and Technology

Jun 2018 – May 2022

Bachelor of Technology in Computer Engineering

GPA: 3.70/4.0

- Coursework: Theory of Database Systems, Analysis of Algorithms, Network Algorithm and Analysis, IOS Development.

Technical Skills

Languages: Java, Python, JavaScript, Kotlin, C++, C, HTML, CSS, TypeScript.

Technologies: Angular.js, React.js, Spring Boot, Node.js, Express.js, Jest, React Native, Vite, JUnit, Django.

Cloud: AWS, GCP, Azure.

Developer Tools: Git, GitHub, VS Code, Android Studio, Eclipse, Scrum, JIRA, Docker, Kubernetes, Jenkins, MS Office.

Database Technologies: MySQL, MongoDB.

Experience

Graduate Teaching Assistant - Programming concepts

Aug 2023 – Dec 2023

Stony Brook University

Stony Brook, NY

- Mentored 50+ undergraduate students in algorithms, data structures and object-oriented programming with C++.
- Streamlined student project development by conducting rigorous code reviews, resulting in a notable improvement in code quality and a 10-hour reduction in debugging time post-submission.

Software Developer Intern

Aug 2021 – Jan 2022

Learnovate Ecommerce

Chennai, India

- Pioneered the development of an E-commerce platform for an early-stage startup using Java and Spring Boot, successfully attracting over **10,000 users** within six months through optimized React frontend implementations.
- Engineered responsive UI forms with **React**, Material-UI, and Tailwind CSS, achieving a 23% boost in user engagement.
- Elevated website performance by cutting initial load time by 80 milliseconds through image optimization, reduced HTTP requests, and asynchronous loading in Next.js.
- Architected and optimized API endpoints using **Spring Boot**, enhancing system throughput from 1,000 to 1,400 requests per second, boosting performance and user interaction quality.
- Streamlined project completion by reducing the timeline from **7 months** to **5 months** through the strategic adoption of Agile methodologies, facilitated by Jira for enhanced task tracking and team collaboration.

Projects

Lambda: A Skill-Sharing Android App for SBU Students|*Java, Android Studio, Firebase*

- Developed Lambda, a **Java and Android Studio**-based skill-sharing and marketplace app for Stony Brook students, incorporating **Firebase** for secure, real-time database management and securing login with OAuth 2.0 authentication.
- Integrated an **AI chatbot** within Lambda, providing real-time assistance for student assignments and supporting over 500 daily interactions, enhancing user engagement and overall app functionality.

Comfy Store Web Application Using React|*React JS, Redux, React Query, Tailwind CSS, DaisyUI*

- Engineered a responsive **E-commerce web application** with a React.js frontend and Java backend, optimizing database interactions and API calls for upgraded performance and user experience.
- Designed a responsive UI with **Tailwind CSS** and **DaisyUI**, improving UX and integrating **React Query** for rapid data fetching and caching, reducing loading times by 410 milliseconds.

NYC Taxi Demand Prediction and Route Optimization|*Python, PyCharm, Matplotlib, NumPy, Pandas*

- Employed **PyCharm IDE** for real-time Python programming, utilizing **NumPy** and **Pandas** for numeric data preprocessing in yellow taxi datasets containing 100k records, resulting in improved data preprocessing efficiency.
- Implemented **Genetic algorithm** for route optimization, leading to a 0.8-mile reduction in average travel distances and enhancing faster route efficiency by 6 minutes on average in **New York City** under ideal traffic conditions.

Leadership Experience

Stony Brook University

Nov 2022 – May 2024

Graduate Facilities Manager

Stony Brook, NY

- Managed Campus Life Center at Stony Brook University, successfully overseeing 1,200+ events to enhance campus life.
- Leveraged 7pointOps and 25Live software for event setups, ensuring execution with a 99% on-time completion rate.