

Manav Rajvanshi

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EDUCATION

- Master of Science in Software Engineering, San Jose State University, San Jose, CA (3.74 / 4.00) May 2021
- Bachelor's in Computer Science & Engineering, Vellore Institute of Technology, India (8.37/10.00) April 2019

PROFESSIONAL EXPERIENCE

- **Software Engineering Intern at Sikka Software**, San Jose, CA March 2021 - Present
 - Developed and optimized the **SikkaOne API v4 portal** for healthcare providers and API partners.
 - Developed services using **C#, .NET Core**, and **MySQL** and the user interface in **ReactJS**.
 - **Profiled** the application and identified performance bottlenecks.
- **Graduate Student Researcher at SJSU Research Foundation**, San Jose, CA January 2020 - March 2021
 - Designed and developed a Computer Vision pipeline to extract ECG curves from paper records.
 - Performed classification using LSTM and CNNs (Deep Learning).
- **Software Engineering Intern at Koba Insurance Pvt Ltd**, Australia (Remote) November 2020 - January 2021
 - Designed and Developed the **quote and purchase modules** of the web application for vehicle insurance.
 - Implemented using **ReactJS** (ES6), **Styled Components**, **GraphQL**, and **Stripe**.
 - Added server-side rendering using **NextJS** and pluggable configurations via Strapi CMS.
- **Senior Software Developer Intern at IBM** (Offering.Next Squad - DGC), Raleigh, NC June 2020 - August 2020
 - **Delivered and shipped** an executive **dashboard** to report growth across **IBM Cloud offerings**.
 - Eliminated **manual effort of 20 hours/month** by completely **automating the reporting** process.
 - Enforced **data standardization** across teams, conducted user interviews and followed **Agile** methodology.
 - Implemented in **TypeScript, NextJS, ReactJS, NodeJS** in a **Test Driven Development** approach with **0 lint errors**.
- **Software Engineering Intern at Mann-India Technologies Pvt. Ltd.** Noida, India May 2017 - July 2017
 - Developed **APIs** using Java Spring Boot for the 'GlobalNet - Corporate Intranet' project.
 - **Optimized** read operations by generating **dynamic SQL** queries using query parameters.

PERSONAL PROJECTS

- **Autoscaled URL Shortening Service** (*Cloud, Golang, Architecture* | [Demo](#)) January 2020 - March 2020
 - Developed a **highly scalable** and **distributed** Bitly service in **GoLang** and user interface in **ReactJS**.
 - Designed the architecture following the **CQRS** pattern and **Event Sourcing** for **high availability**.
 - Implemented worker **goroutines** with communication through **channels** for high concurrency.
 - Implemented **intra-microservice** communication using **RabbitMQ** fanout exchanges for a loosely coupled design.
 - Containerized and deployed across multiple Availability Zones on **AWS** and **Heroku** with a **NoSQL cache**.
- **Dataverse - Distributed File Storage** (*Cloud, Python, gRPC* | [Github](#)) January 2020 - March 2020
 - Developed a **cloud-based distributed** file storage system using **Python** and **gRPC** with data **replication**.
 - Implemented **dynamic** addition of nodes with data retrieval using Breadth-First-Search for **low latency**.
 - Deployed on **AWS cloud** and **Google Compute Engine** VM instances using **Terraform**.
- **Grubhub Prototype** (*NodeJS, ReactJS, ExpressJS, MongoDB*) August 2019 - October 2019
 - Built a **scalable, 3-tier Full-Stack** web application for food delivery management and tracking.
 - Implemented communication between **microservices** using **Apache Kafka** and implemented **Redis caching**.
 - **Implemented a reverse proxy service** for **CORS** (Cross-Origin Resource Sharing).
 - Performed unit tests using **Enzyme** and load testing using **JMeter**.
 - Authorized endpoints with JSON Web Tokens (**JWT**) and deployed on **AWS EC2**.

TECHNICAL SKILLS

Languages	Java, JavaScript, TypeScript, Golang, Python, C#	
Frameworks	Web: NodeJS, ExpressJS, ReactJS, NextJS, Angular	Data: SK-Learn, Keras, OpenCV, Tensorflow
Databases	MySQL, MongoDB, Redis	
Others	GIT, Docker, Kubernetes, Apache Kafka, RabbitMQ, AWS, GCP, IBM Watson, Terraform	

ACHIEVEMENTS & EXTRA-CURRICULARS

- **[Hackathon]** IBM Intern Hackathon 2020
- **[Hackathon]** Developer Week 2020 Hackathon
- **[Hackathon]** SELECT Make-A-Thon 2017
- **[Stack Exchange]**
- **[Publication]**
- COVID-19 AI platform for **impact across minority groups**.
- Implemented a solution to **minimize food wastage** across restaurants.
- Developed a gesture-based laptop controller for **differently-abled**.
- Answered **technical** questions, **impacting more than 47k users**.
- Internet of Things based surveillance vehicle.