

# JAIGANESH RAO

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## EDUCATION

### Stevens Institute of Technology

Master of Science, Computer Science — GPA: 3.778/4.0

August 2021 – Expected December 2022

Hoboken, NJ

**Awards:** Provost's Masters Fellowship

**Coursework:** Web Programming, Agile Methods for Software Development, DBMS, Data Structures & Algorithms, Fundamentals of Computing, OOAD, Knowledge Discovery & Data Mining, Fundamentals of Cybersecurity

### University of Mumbai

Bachelor of Science, Computer Science — GPA: 3.2/4.0

May 2015 – June 2018

Mumbai, India

**Awards:** CS Department Representative Award

## EXPERIENCE

### Systems Engineering Research Center (SERC)

Graduate Student Assistant, Software Engineer

July 2022 – Present

Hoboken, NJ

- Engaged in website maintenance and development for projects under **SERC**.
- Complete integration of website framework from **PHP Laravel** to **ReactJS**.
- Acting Graduate Student Assistant, performing general administrative tasks and working on ad hoc projects.

### LTI - Larsen & Toubro Infotech

Software Engineer - Cloud & Infra Services

January 2019 – July 2021

Navi Mumbai, India

- Collaborated on application development and support using **Java** and **Python**.
- Developed and refined applications, including entry management tools, conversion revenue reporting systems, and production process tracking systems for the client.
- Updated existing **RESTful** APIs and implemented optimization.
- Maintained and troubleshoot large-scale apps for critical bugs and errors, increased efficiency by **15%**.
- Created **30+** Python scripts, further used for successful automation.
- Engaged in application code reviews and monitoring using **Nagios** and **New Relic**.
- Participated in future projects and innovations within the company.

## PROJECTS

### Build-A-Survey (GitHub) | Stevens Institute of Technology

June 2022

- Developed an online survey builder app using **ReactJS**, **NodeJS**, **ExpressJS**, **MySQL Workbench**, and **React-Bootstrap**.
- Added CRUD admin features to generate surveys and options to create **MCQ**, **Inventory**, and **Likert** questions.
- Engineered a user-friendly interface for survey feedback submission.
- Designed intensive relational data model and wrote **SQL** queries for database operations.

### TULSEE (Website, Demo, GitHub) | Stevens Institute of Technology

May 2022

- Built a B2C collaboration app using **NextJS**, **NodeJS**, **ExpressJS**, **Firebase**, **Socket.io**, **AWS EC2**, and **Chakra-UI**.
- Implemented features such as creating personal and group projects and CRUD operations for every task.
- Added group chat, end-to-end encryption, image & document upload, search, and archive project.
- Integrated **Zoom API**, allowing group members to host meetings within the application.
- Enabled easy sign-in/login option with **Google SSO**.

### MediaHub (Demo, GitHub) | Stevens Institute of Technology

December 2021

- Created Movies & TV-Shows web app using **ReactJS**, **NodeJS**, **ExpressJS**, **MongoDB**, and **React-Bootstrap**.
- Defined CRUD operations for Users & Media, also option to filter content by release date, genre, popularity, and title.
- Executed user authentication system using **JWT**, enabling and maintaining user logged-in sessions.
- Introduced auto-complete search and trending media features based on overall ratings.

### School Management System | University of Mumbai

January 2018

- Created a web application for teachers and students using **Python Django** and **MSSQL Server**.
- Introduced an ER diagram to build database relationships and enabled database connectivity via **pyodbc**.
- Deployed project on **Windows 2012 R2** server utilizing the **IIS** feature and **CGI** role services.

### Dictionary App | University of Mumbai

October 2017

- Constructed a mobile dictionary app using **Android Studio** and **SQLite**.
- Included **2000+** words, providing a view of words with definitions, synonyms, antonyms, and sentence usage.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, SQL

**Web Technologies:** HTML5, CSS3, NodeJS, ReactJS, NextJS, ExpressJS, VueJS, GraphQL

**Database:** MongoDB, Firebase, PostgreSQL, MySQL Workbench

**Other:** GitHub, AWS, Azure, VMware, Cisco Packet Tracer