

# SOWMYA VIJAYAKUMAR

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## OBJECTIVE

Self-motivated programming professional seeking a software engineer position.

## EDUCATION

**Stevens Institute of Technology**, Hoboken, NJ

Master of Science in Computer Science [Awarded Provost's Masters Fellowship]

May 2018

GPA: 4.0/4.0

**Mumbai University**, Mumbai, Maharashtra

Jun 2008

Bachelor of Engineering in Computer Engineering

## SKILLS AND TOOLS

**Technical Skills:** React, Redux, Node.js, JavaScript, HTML5, CSS, Sass, REST API, Redis, Express, Bootstrap, SQL, Git Version Control, UNIX Shell Scripting, Java

**Databases:** Sybase ASE, DB2, Oracle, MongoDB, PostgreSQL

**Certifications:** Modern React with Redux - Udemy, Node with React - Full stack Web Development - Udemy, IBM Certified Database Associate - DB2 9 Fundamentals

## WORK EXPERIENCE

**innRoad**, New York

July 2018 – present

**Front end Developer**

- Design and Develop a single page responsive web application for managing the entire rates setup for innRoad using **React JS, Typescript, Redux and Bootstrap**
- Used Saga Middleware, Redux-Promise in application to retrieve data from back end.
- Contribute to the development effort of each project by leading and working on the continuous improvement activities of build process, software release process and the team estimation process
- Implement complex business functionality by collaborating with product managers
- Used JIRA as the bug tracking system to track and maintain the history of bugs on everyday basis.

**Stevens Institute of Technology**, Hoboken, NJ

Jan 2018 – May 2018

**Graduate Teaching Assistant - Web Programming**

- Grading assignments
- Tutoring and assisting students by holding weekly office hours.

**J.P Morgan Chase**, Mumbai, India

Nov 2013 – Mar 2015

**Associate, Equities**

Project: **Equites Release Process Automation**

- Devised an access control mechanism for avoiding conflicting operations and provide different privileges to various users of the release tool, Designed the tables, primary key constraints and indexes of the database model, implemented stored procedures for validation checks (**Perl, Sybase ASE**)

Project: **Production Release Management**

- Tuned and optimized long running SQL queries by altering the database design and indexing strategies (**Sybase ASE**)
- Created **UNIX** shell scripts for reviewing database changes to take care of schema dependencies, server restrictions, foreign key violations, reporting release status

**Tata Consultancy Services**, Mumbai, India

Nov 2008 – Oct 2013

**Information Technology Analyst**

Project: **Cash Analysis and repatriation, London, United Kingdom**

- Developed scripts for the back-end processing of the cash receipts and automating file feeds for other interacting systems(**Perl**)
- Implemented the workflow of a cash receipt using the State Design Pattern (**Java**)

Project: **Enterprise Data warehousing, Mumbai, India**

- Configured partitioned database environment, designed tables using hash partitioning and range partitioning (**DB2**)
- Solved a data skew problem by identifying the partitions where the table data was unevenly distributed (**DB2, UNIX Shell scripting**)

## PROJECTS

**Stevens Institute of Technology**, Hoboken, NJ

**Virtual Pet Pal** (React, Redux, Node.js, MongoDB, Express, Bootstrap, Redis )

**Apr 2018**

- Developing a website for users who want to experience the joy of caring for a pet virtually.

**Spotify Music Player** (React, Node.js, Bootstrap)

**Feb 2018**

- Developed a music player website which searches for a track using the Spotify API and allows to play a preview of the track.

**Effugio – A Travel Dating Website** (Node.js, AJAX, MongoDB, Bootstrap)

**Dec 2017**

- Created a dating website for people who love travelling and match them based on their similar interests in travelling

**Extended SQL Compiler for OLAP queries** (Java)

**Apr 2017**

- Developed a SQL compiler to optimize complex data mining queries

## Achievements

- Won the Best Design Award at Stevens Hackathon for designing a website for encouraging people to do more social work
- Awarded STAR OF THE MONTH AWARD for outstanding performance in Tata Consultancy Services