

# SURESH KUMAR

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## SUMMARY

- **Full Stack Web Developer** with a passion for creating web applications and responsive websites.
- Natural problem solver and **value adder** with proven cross-team collaboration.
- Proficient in full stack web development and real time embedded telecom management software.
- Strong **analytical skills** with excellent verbal and written communication skills.

## TECHNICAL SKILLS

**Frontend:** HTML5, CSS, JQuery, Javascript, Bootstrap, AJAX, Handlebars

**Backend:** MySQL, Sequelize, MongoDB, Mongoose, Express, ReactJS, Node

**Languages:** C, C++, Java, Python

**Applications:** MS Office Suite

**Version Control:** Git Bash, GitHub, Visual Studio Code, Mercurial, Clearcase

**Project Management / CI/CD:** Confluence, JIRA, DDTs, Jenkins

**OS:** Unix, Linux, Real Time OS (RTOS)

## PROJECTS

**Art Via Music | Github:** <https://bit.ly/3huCveF> | **Deployed:** <https://bit.ly/2P2qSj3>

- Art Via Music is an app that takes user input of song name and band name in the front end, then forms a queryURL towards lyrics ovh web API and gets back the lyrics of the song. Then lyrics are sent to the parallel dots web API and keywords are picked out of the whole song that came back in the JSON response. The keywords are then fed to harvardMuseum API and in response a JSON array of 10 arts are returned. Then the art that has an associated image url is displayed along with its title, description, date and author. All the 3 web APIs were made using nested async AJAX calls.
- Created html, JavaScript and css files. Mainly responsible for coding and integrating Parallel dots AI API and overall integration, debugging. Reviewed, integrated, tested and approved the changes of other contributors to the app who handled API towards other services.
- Tools / languages / Processes used: HTML, Skeleton CSS framework, Javascript, JQuery, AJAX, Web API, JSON, Git, Agile.

**WeatherDashboard | Github:** <https://bit.ly/3fSNEWk> | **Deployed:** <https://bit.ly/2EcMxmm>

- Weather Dashboard is an app that takes the city name as user input in the front end then gets back current weather conditions, UV Index for the city and 5 day forecast using different nested web APIs. The responses come in JSON format. They are processed properly and the html content and css styling are updated dynamically based on the JSON response values. Proper color coding of UV Index value is applied based on the response UV Index value. Apart from temperature, humidity and conditions, the weather icon image is also displayed.
- Created HTML, Javascript and CSS files. Reviewed, integrated, tested and deployed the app in github

- Tools / languages used: HTML, CSS, Javascript, Gitbash, Git

**Project Team Generator | Github:** <https://bit.ly/2BtaMf4> | **Deployed:** <https://bit.ly/30MrM8O>

- Project Team Generator is a server app written in nodeJS. It uses some template html files and replaces placeholders with user provided team member values and generates the final team.html and writes into the file system. As an extension, it can be made to reply the entire html to client side on receiving a client http request. The app prompts the user to provide team member name, id, role and role dependent info and generates the team.html
- Created HTML, Javascript and CSS files. Reviewed, integrated, tested and approved the app.
- Tools / languages used: HTML, Bootstrap CSS, NodeJS

## EXPERIENCE

**Senior Software Engineer**  
**Nokia**  
**Senior Software Engineer**  
**Alcatel-Lucent**

**2016 – 2019**  
**Raleigh, NC**  
**2008 – 2015**  
**Raleigh, NC**

Full life cycle of telecom product management software development using agile methodology from requirements to integration testing using C, C++ languages on real time operating systems running on embedded systems. Contribute to new features development releases, bug-fix emergency releases, using user epics/ stories / JIRA tickets. Also worked with the Technical Support and Customer Focus team on priority field escalated events / tickets as needed. Worked on Fiber-To-The-User product line using GPON technology. The GPON product I worked on is deployed in the Google Fiber rollout.

### *Key Accomplishments:*

- Optimized SNMP queries which were timing out and taking several hours to matter of a few minutes.
- Optimized memory usage and reduced overall memory foot-print needed
- Several instances, I diagnosed and fixed memory leak issues reported initially as a system crash.
- Nominated for and got several high-five awards, night-out awards for performance, excellence and teamwork.

## ADDITIONAL EXPERIENCE

**Senior Software Engineer**  
**Alcatel**

**1996 – 2008**  
**Raleigh, NC**

Worked on Mobile Switching Center software using CHILL language, STP product and Fiber-to-the-User APON and BPON and GPON products. The GPON product that I worked on is deployed as part of the FiOS solution of Verizon and Google Fiber solution of Google.

## EDUCATION

**Bootcamp Certificate: UNC Full Stack Flex**, Chapel Hill, NC

A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Firebase, Node Js, MySQL, MongoDB, Express, Handelbars.js & ReactJS.

**Master of Engineering: Indian Institute of Science**, Bangalore, India.

**Bachelor of Science ( Physics): Voorhees College**, Vellore, India.