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# Nihal Konda

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[nihalkonda.com](http://nihalkonda.com)

[github.com/nihalkonda5](https://github.com/nihalkonda5)

## EDUCATION

Master of Science in Software Engineering (**GPA: 3.63**) 12/2020  
**San Jose State University** San Jose, CA

Bachelor of Technology in Computer Science Engineering 05/2018  
**Jawaharlal Nehru Technological University Hyderabad** Hyderabad, Telangana

## SKILLS

### Programming Languages:

Java, JavaScript, TypeScript, C, C++, Python, Kotlin, and Ruby

### Web Technologies and Frameworks:

Spring, Laravel, PHP, Node.js, Express.js, Angular.js, React.js, Redux, Ruby on Rails, Flask, Django, jQuery, HTML, and CSS

### Database Management:

JPA, SQL, MySQL, MongoDB, Google Firebase Real-time Database, ORM, Mongoose, RDBMS, Redis

### Cloud Technologies & Services:

Amazon Web Services [EC2, EB, RDS, SQS, S3, DynamoDB, API Gateway, Greengrass, Lambda], Google Cloud Platform, Heroku, MongoDB Atlas Cloud, Docker, Kubernetes, Systems Integration

### Other Technologies & Tools:

Android Application Development, iOS Application Development, React Native, Chrome Extension Development, Chrome Dev Tools, IoT, Microcontrollers [Arduino, Raspberry Pi], Embedded Systems, CI/CD, Microservices, REST API, Mobile Device Management (MDM), GitHub Version Control, Selenium, Heap, Segment, Snowflake, JIRA, Buganizer, Android Bug Tool (ABT), Volta Historian.

## EXPERIENCE (Years: 6+)

**Android Triage Engineer (TVC)** 02/2021 - Present  
**Google, Inc.** Sacramento, CA

- **Triage Helper Chrome Extension for Google:**

I have built a chrome extension tool to help automate and improve data accessibility for my team members, The tool functions as mentioned below:

- The tool parses vital information from a human-written bug report summary. This information is then used for **quick copy** and **carryover** features.
- The extension utilizes **chrome storage api** to store information extracted from the bug summary and present it on the appropriate helper webpages of the same bug.
- The extension makes use of **chrome tabs api** to browse through the tabs for the **switch-over** feature between tabs belonging to the same bug.
- The extension **monitors the buganizer** web page for user-influenced changes and alerts them for any actions to be taken to comply with ever-changing guidelines.
- The tool provides users with a feature to create and run their **custom macros** which can help avoid human error while following guidelines and speed up the process for 60% of the bug types.
- The new **1-Click Triage** feature is capable of extracting all the relevant logs for a bug with just

one click.

- The tool implements the **Levenshtein distance algorithm** to provide a web interface to compare exception stack traces for similarities.

## **Product Analyst Intern**

08/2020 - 12/2020

### **Knowde**

San Jose, CA

- **Knowde Customer Chrome Extension**
  - The extension monitors customer's web activity and text within each webpage for Chemical related keywords which can produce search results in Knowde search.
  - Customers are alerted with a badge number on the icon on the extension whenever their webpages have any relevant keywords to Knowde.
  - Customers can then click on the extension for a quick search preview of keywords extracted from their web pages.
- **Knowde Admin Chrome Extension**
  - The extension enhances the admin tool user experience by exposing auto enroll and enroll in incognito features readily available on the user search results page.
- Segment Protocol Validation Automation Tool
- Knowde Web UI Monitoring Automation Tool
- HotJar-Appcues Mapper Tool

## **Product Management Intern**

05/2020 - 08/2020

### **Knowde**

San Jose, CA

- Built a Selenium automation tool written in python to backup designs from Figma
- Worked with Heap, Segment, and Snowflake for Analytical tasks
- Drafted help documentation for basic components and QA process documentation

## **Android Developer**

11/2018 - 01/2019

### **MAKAIR**

Pune, Maharashtra

- Designed and Created a Multilingual Android Application for a Government conducted Survey program
- Built a scalable backend PHP server to collect survey data and facilitate visualization and export

## **Full Stack Developer**

05/2018 - 11/2018

### **Marvel Geospatial Solutions Pvt Ltd**

Hyderabad, Telangana

- Constructed an IoT Solution for ITC barns with IBM Watson as Edge Cloud
- Developed an Android app to form an ad-hoc network of IoT within a barn, Android app is also responsible to act as an intermediary node in the chain of communication between Cloud and IoT

## **Full Stack Developer (Freelance)**

09/2014 - 04/2018

### **MultiEdge Inc**

Hyderabad, Telangana

- Developed Java Spring boot, JSP REST API servers, and Java-based TCP applications for Local file sharing and synchronization
- Developed an Android application to control and monitor the availability of Paying rooms in Government Hospitals using Google Firebase for Realtime Database
- Developed an Android application using WiFi P2P service to achieve Many-to-One Live Media sharing
- Developed a Multi-Tenancy app built on PHP and Bootstrap notice board application for colleges and schools, build

## ACCOMPLISHMENTS

- Earned a certificate with **100%** in **Algorithmic Toolbox by University of California San Diego** & National Research University Higher School of Economics on Coursera. Issued on 04/05/2020. Link: <https://coursera.org/share/f1dc950f267bf080f5b7b113515dfa00>.
- Lead a team of 3 students and won an IoT Championship conducted by IIT Kharagpur in 2017.

## GitHub LIBRARIES

- **[NK JS Library:](#)**  
The library includes singleton services Binder, In-Memory Database, Publish-Subscribe, and a wrapper over Firebase Realtime Database. The library also includes encryption, google geocode, mailer, and other common utilities.
- **[NK Node Library:](#)**  
The library includes boilerplate and base classes for all crucial layers of an Express framework node server middleware functions, controllers, services, and repositories. The library also includes two-token JWT auth and request processing with JSON validation and IP based location decoding
- **[NK REST JS Library:](#)**  
The library includes a generalized class called “RESTObject” to help with CRUD operations, “SearchRESTObject” for search operations, “RESTOperations” module with inbuilt singleton Header management for token preservation
- **[NK React Library:](#)**  
The library includes
  - A complex container to provide a Modal module with presets for confirm and prompt dialogs, a Toast panel module, an Internal navigation module, a GPS Location request/organizer(by IP), and a predefined dictionary dependant Language Translation
  - An automatic form generator with all of the traditional form inputs as preset types including a “Rich Text Editor”
  - All common components required for a simple react app like dropdown menu, text translator, pagination, e.t.c
  - A singleton state manager with change listeners, a dictionary lookup and other common react utilities for modal, toast, redirection, e.t.c

## PROJECTS

### Cab Buddies:

Cab Buddies is a social networking platform for travelers and travel enthusiasts to connect, travel together, help each other out by picking up package deliveries and questionnaire forums

- **Frontend:** A React Native app written in TypeScript with Firebase Realtime Database for Notifications and Chat, and “**nk-rest-js-library**” for simplifying CRUD and Search REST operations
- **Backend:** Collection of Node REST API Microservices written in TypeScript using Express Framework, “**nk-node-library**” for boilerplate code and generalized classes, “**nk-js-library**” for common services and utilities, and mongoose to interact with MongoDB

### Is It Just Me:

Is It Just Me is a platform to post and track topics of concern to the community, the application’s primary objective is modeled over GitHub issue threads where an issue is opened by a user, and the community comes together to update the progress of the issue till it is finally resolved

- **Frontend:** A React app written in TypeScript with “**nk-react-library**” for common components, and basic utilities, and “**nk-rest-js-library**” for simplifying CRUD and Search REST operations of the application

- **Backend:** A Node app written in TypeScript using Express Framework, “**nk-node-library**” for boilerplate code and generalized classes, “**nk-js-library**” for common services and utilities, and mongoose to interact with MongoDB

**Open Home:**

Open Home is a Java Spring Boot application modeled after Airbnb. The application uses JPA to perform CRUD operations on a MySQL database. HTML5, CSS3, Javascript, jQuery, React.js for Frontend. Application is deployed on Google Cloud Platform

**Agri IoT:**

AgriIoT is a Cloud-Based IoT solution for Agricultural Management System. We have built an IoT device with NodeMCU[ESP8266] microcontroller which communicates with IBM Watson as the Edge Cloud and AWS EC2. HTML5, CSS3, Javascript, jQuery, React.js and Angular.js for Frontend

**Newbie:**

A community-based personalized instruction guide application. Leveraged Material UI, Navigation UI for high-quality UX. Hosted a NodeJS server in Heroku cloud and maintained community-generated data in Mongo Atlas Cloud. Formulated UI and implemented the file-sharing module

**nKlix:**

WiFi P2P Android Application that connects multiple devices on a network and shares pictures taken on all devices to one Master device live