

## Balaji Murugaiya

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### EDUCATION

#### SSN College of Engineering

Bachelor of Engineering, Electronics and Communication Engineering, **CGPA: 7.83/10**

Chennai, India  
2017-2021

*Member of Q! quiz club, Developers Club*

Relevant Coursework: *Programming in Python, Data Structures in C, Computer Architecture, Cloud computing, Digital Design*

#### National Public School

Highschool, Grade -12, **Marks - 476/500(95.2%)**

Chennai, India  
2016-2017

*Actively participated in MUNs, Cultural, Debates. One of the school toppers*

Relevant Coursework: *Programming in C++ , DBMS, Calculus*

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### WORK EXPERIENCE

#### Freshworks

Chennai, India

##### Software Engineer

April 2022-Present

- Building an Oauth2 authorization server that provides granular access to Freshworks APIs for third party apps that integrate with Freshworks.
- Performed AWS account migration for an application and set up a CI/CD pipeline that streamlined the continuous integration for a system at Freshworks.
- Added Performance, Error and usage metrics and dashboards and alerts that reduced number of incidents by 50%

##### Graduate Trainee - Software Engineering

August 2021- April 2022

- Added functions to an internal chatbot that performs API calls and DB queries by processing natural language

##### Intern - Software Engineering

Mar 2021 – June 2021

- Learnt Java, Mysql and IoC design pattern and implemented them on a project(github link - <https://github.com/Balaji-Murugaiya/InternProj>)

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### ACADEMIC PROJECTS

#### Smart Glove for Deaf and Mute people

2018- 2020

- Built a smart glove with flex sensors and accelerometers that turn sign language gestures into speech and text.
- Improved the accuracy by using a machine learning algorithm.

#### Hand Cricket Game with Computer Vision

2021

- Created a game using python that will play hand cricket which is a game similar to rock paper scissors with a user.
- Used OpenCV to get live image data, used tensorflow framework to train and build a convolutional neural network model that does the predictions.

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### AWARDS AND ACHIEVEMENTS

- Qualified for the final round of Smart India Hackathon 2019(*Top 1% of 0.5 million participants*) conducted by the Ministry of Human Resource Development, Government of India.

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### PUBLICATION

*A. Krishnan, A. Vijay, B. M and S. BS, "Gesture Recognizer and Communicator using Flex Sensors and Accelerometer with Logistic Regression," 2020 3rd International Conference on Intelligent Sustainable Systems (ICISS), Thoothukudi, India, 2020, pp. 391-394, doi: 10.1109/ICISS49785.2020.9315897.*

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### SKILLS AND INTERESTS

**Technical Skills:** Java, Data Structures, Spring Boot, MySql, OOP, Oauth2, Kafka, Machine learning, Docker, Kubernetes, Python, HTML, CSS

**Other Skills and Interests:** Agile Methodology, Start ups