

# Akshat Shah

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## 🛠 EXPERIENCE

### WELLS FARGO INTERNATIONAL SOLUTIONS PVT. LTD.

#### SOFTWARE ENGINEERING INTERN

May – July 2021

- Constructed a microservice architecture involving **Node** (Express), **Python** (Flask), **Elasticsearch** with a team
- Built a client interface using **ReactJS**
- Worked on functionality requiring **NLP**
- All stages of SDLC were carried out with an agile approach

### CENTRE OF EXCELLENCE, VJTI

#### WEB DEVELOPMENT INTERN

April – May 2021

- Worked on the front end of a CTF Website using **ReactJS**
- Contributed to the back end in **Node** (Express)

## 📁 PROJECTS

### ⚡ REMAINING USEFUL LIFE PREDICTION OF BALL BEARINGS

*A Weiner process statistical model to predict the RUL of degrading ball bearings given their vibrational readings.*

- Used an Expectation Maximization algorithm to estimate the unknown parameters in each iteration
- Utilized the *Rauch-Tung-Striebel (RTS) smoother* consisting of an *Extended Kalman Filter* for fixed interval smoothing
- GitHub: [akshatshah21/RUL-Prediction](#)

### ⚡ SCM WITH LOCATION TRACKING

*A demonstration of supply chain management with an Android app for navigation and location tracking, and a web interface for management*

- Developed the app using **Android Studio in Java**
- Contributed to the backend **Express** API
- Developed the front end using **React**
- GitHub: [akshatshah21/SCMO](#)
- GitHub: [akshatshah21/Android-Location-Tracking](#)

### ⚡ EDUCATIONAL FORUM

*An online forum where users can write and view articles, chat with each other and create sub forums and communities*

- Contributed to the database design and implementation in **PostgreSQL**
- Implemented the chat feature using **Socket-IO**
- Worked on the front end using **JavaScript** and **Bootstrap**
- GitHub: [akshatshah21/SAGA](#)

### ⚡ DENSE VIDEO CAPTIONING

*Localizing dense events in a video and generating captions*

- Ongoing BTech Project

## 🎓 EDUCATION

### BTECH, VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

#### INFORMATION TECHNOLOGY

August 2018 – Present | Mumbai, India

CGPA: 9.27 (upto semester VI)

### HSC, KC COLLEGE

July 2016 – May 2018 | Mumbai, India

Aggregate: 95.69% | First Rank in College

## >\_ SKILLS

### PROGRAMMING LANGUAGES

#### Experienced

C++ • C • JavaScript, NodeJS  
Python • SQL

#### Familiar

Java • Kotlin

### TOOLS AND TECH

#### Experienced

Express • Flask  
React • HTML • CSS Frameworks  
Jest • React Testing Library • Pytest  
Scikit-learn • Git

#### Familiar

Flask • Postman  
Android Native (Java and Kotlin)  
PyTorch  
Docker

## 👥 ACTIVITIES

### COMMUNITY OF CODERS

Workshop Instructor, Mentor, Website Contributor, Magazine Curator

### SOCIETY OF ROBOTICS AND AUTOMATION

Workshop Instructor

## 🏆 ACHIEVEMENTS

SEMICODE 2020 CO-FINALIST

C-WAY 2019 THIRD

ALGOCON 2019 THIRD