

# Tirth Shah

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## EDUCATION

### •Master of Science in Computer Science

California State University, Chico, CA

May 2026

### •Bachelor of Engineering in Electronics and Telecommunication

AISSMS Institute of Information Technology, Pune, IN

CGPA: 3.7/4

May 2022

## EXPERIENCE

### •Onix Datametica Birds (Formerly Datametica Pvt Ltd)

Associate Member Of Technical Staff

Associate Engineer

Product Intern

Pune, IN

April 2024 - July 2024

September 2022 - March 2024

October 2021 - August 2022

- Spearheaded development of data migration tools for one of the product suite called Raven, enhancing support for DataStage and building new tools for Informatica and Alteryx.
- Designed and implemented advanced data generator tools with Groovy and Scala, resulting in the production of 1M+ synthetic records; these tools improved query performance and reduced testing time by 30 hours monthly.
- Proficient in CI/CD methodologies within Agile environments, adeptly supporting both Kanban and Scrum workflows in a TDD approach.
- Built Raven UI with Spring Boot, JPA, PostgreSQL, React, and Docker to streamline migrations and implemented automated email notifications to enhance stakeholder communication.

### •lvl Alpha Pvt Ltd

EEE Design Associate

Pune, IN

Oct 2021 - April 2022

- Developed 'Vibershield,' a sponsored final year project by Indian Army, focused on creating an advanced enemy intrusion detection system using LoRa communication and the D7s geophone sensor.

### •SOIL - School of Innovation and Leadership

AI/ML Intern

Remote

July 2021 - Sept 2021

- Developed a book recommendation system for the 'Ask Anjlee' AI solution using BERT, sentence transformers, and NLP techniques with spaCy and NLTK to provide personalized educational support for underprivileged children.

### •Technikein Technologies

Electronics Intern

Dec 2020 - Jan 2021

Pune, IN

- Designed and programmed circuits using both C and Assembly languages, with focus on Arduino microcontroller development.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C/C++, Python, Java, Kotlin, Groovy, Scala, Javascript, HTML+CSS

**Libraries :** C++ STL, Tensorflow, Numpy, Pandas, JPA, Scikit learn

**Web Dev Tools:** Nodejs, VScode, Git, Github, Gitlab, IntelliJ Idea

**Frameworks:** Springboot

**Cloud/Databases:** Relational Database(mysql), BigQuery, Teradata, Oracle, MongoDB

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

## PERSONAL PROJECTS

### •Smart Solar Pannel

[Click Here](#)

- Made sunlight tracking solar panel, with self-cleaning and cooling mechanism.
- Used Live Weather data from Google weather to get accurate results.
- Technology Used: C, Arduino Uno.

### •Small bazaar (Grocery Shopping App)

[Git Code](#)

- Created a grocery shop application using Spring Boot and Rest API.
- Technology Used: SpringBoot, Java, JavaScript, HTML.

### •Vibershield (An Advanced Enemy Intrusion Detection System)

[Click Here](#)

- Developed an energy-efficient IoT system using a D7s sensor and LoRaWAN-enabled MCU to transmit data to the admin at regular intervals for real-time remote monitoring.
- Technology Used : MCP73831/2, AP7312-1533W6-7 (dc-dc converter), .

## AWARDS AND PUBLICATIONS

### •Rising Star Award Datametica Birds

June 2023

### •Sardey, M.P., Shah, Tirth., Joshi, P. and Shah, K., VIBERSHIELD: An Intrusion Detection System.

Jan 2023

### •IEEE Trident 4.0 Winner - Pune

Sept 2019