

# Subham Tibra

Full-stack Developer

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## Profiles

- Subham Tibra
- shubhamtibra

## Skills

**Programming Languages:** JavaScript, Python, C++, Java, TypeScript

**Back-end Technologies:** Express.js, Sequelize, GraphQL

**Front-end Technologies:** HTML, CSS, Tailwind CSS, React.js, Next.js, Redux, Webpack

**Databases:** SQL, PostgreSQL, NoSQL (MongoDB)

**Message Queues:** RabbitMQ, Redis

**DevOps:** Docker, Terraform, GitHub Actions

**AWS:** EC2, EBS, ECS, ACM, ELB

**Version Control:** Git

**Architecture:** Microservices, Trunk-based development

**Testing:** Playwright, Mocha, Jest, Unit Testing, Integration Testing

## Education

IIT Kharagpur  
Mathemaitcs and Computing  
April 2014 - August 2019  
Grade: 7.99/10

Full-stack Developer with 4 years of experience specializing in back-end development. Proficient in API integration, data modeling, performance optimization, and system design. Skilled across the full software development lifecycle (SDLC).

## Experience

**Sprinto** September 2024 - Present  
Full-stack Developer Remote

- Leading production incident management**, including root cause analysis and resolution.
- Cut OpenAI API costs** with a persistent vector database synced to internal files.
- Built a Chrome extension**: provided a login interface for unauthenticated users; enabled authenticated users to query a backend API and view responses directly within the extension.
- Implemented **vendor risk scoring system** with **customizable email** feedback workflow.
- Technologies:** Node.js, Next.js, GraphQL, PostgreSQL, Feature Flags, Data model migrations

**SAP Labs India** November 2021 - January 2024  
Software Developer Bengaluru, India

- Tech lead** of the LCM project. **Core project** used across all teams. Used **Typescript** and **PostgreSQL**.
- Developed a robust system to queue and execute customer processes, manage incoming success or error notifications, and implement resumption capabilities, eliminating the need for process restarts.
- Prevents corruption** of customer data, **streamlines the process** of customer onboarding to going live.

**Kommunicate** August 2020 - November 2021  
Full-stack Developer and Machine Learning Engineer Bengaluru, India

- Led development of high-priority **WhatsApp business integration** using Twilio/360Dialog.
- Bi-directional messaging with **template messages, interactive messages, file sharing, and read receipts**.
- Optimized performance through **webhook caching**.
- Technologies:** Node.js, React.js, MongoDB, RabbitMQ
- Engineered a Python-based chatbot intent recommendation system, converting user prompts into intents.
- Developed context-aware feature for chatbot to remember the previous user input and respond based on it.
- Built a Shopify app to add a chatbot to customers' websites with an **OAuth login** flow.

**Liv.ai (Acquired by Flipkart)** May 2018 - June 2018  
Research and Development Internship Bengaluru, India

- Trained and deployed **deep learning** RNN-LSTM language models in **Tensorflow**.
- Batch reading 1TB text data, employing subword tokenization resulting in 11% accuracy improvement.
- Designed custom deep learning model to predict conversation between two individuals.

## Projects

**Google summer of code 2016** May 2016 - August 2016  
Module lead

- Added a new module Holonomic functions in the **open source Python** library SymPy.
- Built algorithms for addition/multiplication/composition/evaluation/series expansion of Holonomic function.
- Wrote algorithm to parse expression trees and convert the given function to holonomic function and vice-versa.

## Achievements

- Employee of the quarter award 3 times in a row** at Kommunicate.