

# Jayanta Pandit

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## EDUCATION

### Asansol Engineering College, West Bengal

*Bachelor of Technology in Electronics and Communication Engg.*

- Cumulative GPA: 9.47
- Relevant Coursework: Data Structures and Algorithms, Programming Methodologies, Digital Systems and Circuit Design, Microprocessors, Computer Networks, Cryptography, Statistics

Asansol, West Bengal

Sept. 2021 – Jun. 2025

## EXPERIENCE

### Freelance Web Engineer & IT Consultant

*Trinity.sh Consulting*

- Serving contract as a **React & Node.js developer** for **Manjeet Kaur Foundation**; managing **CI/CD pipelines and deployment processes** for their back-end
- Serving contract as a **Python Automation Engineer** for GrowXP, New Delhi; **building and maintaining Newsletter dispatch automation, SEO Tracking and WhatsApp Business marketing tools**

### MVP Development Lead

*SmallTownTalks*

- Designed and built **NextJS app** for company's **Google Maps, OpenWeatherMaps & Geolocation API** based SaaS stealth product
- Served Contract as a Full Stack Engineer for **The Dhobi Ghat** and built their **order placing Native Android app (published on Play Store), order management employee dashboard and CMS (React.js) and order delivery Android app** (for employees and admin boards)

### Full Stack Web Developer

*Prachar More*

- Served contract as **full stack web developer** for **Franchise Hub, India** & an Uttarakhand based adventure sports and travel company **The Himalayan Exploration**

Mar. 2023 – Present

Remote, Asansol, WB

Nov. 2022 – Mar. 2023

Remote, Asansol, WB

May. 2022 – Nov. 2022

Remote, Asansol, WB

## PROJECTS

### ACORN Lexical Database | ENGLISH LEXICAL DATABASE | C99, C++17, Qt5, CMake

- Wrote a quick-access **database query C++ library** for Princeton's WordNet 3 database (containing 155,000+ definitions)
- Uses **Qt5 toolkit** for building **Native desktop front-end** for Linux
- Used a **modified binary search implementation** to quickly parse, retrieve and compile database items for the command-line and Qt front-end

### TurboZAS | TEXT BASED ADVENTURE GAME ON THE TERMINAL | Turbo C++, BGI-GL

- Zombie Apocalypse Survivor (shortened, ZAS) is a 16-bit **retro style escape-room** adventure game on the Windows 3.x **DOSBox** terminal built with the TurboC/C++ compiler (1992); features original classic SFX
- Uses 16-bit BGI graphics library to render graphical elements in the terminal

### URLTag | WEB TRAFFIC COUNTER | TypeScript, Python, Node.js, Express, MongoDB

- Used to **generate unique tracking URLs, embed them in HTML image tags** (that responds with a 1x1 resolution PNG payload) and **monitor hit count from each**
- URLTag uses **HTTP requests** to notify the API to increment the number of hits when a HTML render is due

### Charity | MODERATION BOT FOR DISCORD | Python, Discord API, MongoDB

- Versatile community management bot for Discord with **Warn, Mute and scheduled Unmute, Kick, (Temporary) Ban, Anti-Spam, Anti-Raid, Anti-Phishing** capabilities
- Community engagement commands include setting up a (anonymous) **Vent-away/Confession channel, ModMail channel, AFK notifier, Web & YouTube search, Lyrics search, Starboard, English dictionary & Language Translation**

Jan. 2020 – Present

Nov. 2018 – Mar. 2020

Mar. 2023

May 2021 – Aug. 2021

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Kotlin, SQL, JavaScript (TypeScript), Bash, Java

**Web:** Next.js, React, Node.js, Express, Socket.io, Strapi CMS, HTML/CSS, Material UI, Tailwind CSS, Figma

**Mobile & Desktop:** Android Native (Android SDK w/ Java & Kotlin), Qt5 Native

**Developer Tools:** Git, Google Cloud Platform, Hostinger, Heroku, Vim, VSCode, PyCharm, IntelliJ, Jira, Slack

**Databases:** MongoDB, PostgreSQL

## AWARDS & ACHIEVEMENTS

- Top 15th Contributor** in IIIT Kalyani's Winter of Code 2.0 (2021-22) Open-Source event among 1500+ participants
- Qualified Level 3 of the Google's Foobar Challenge (2021)
- Valedictorian** — De Nobili School, Maithon, 2018; **ranked 2nd** in Institute among 80+ candidates in ICSE 201718
- Bagged Award of Excellence with **1st rank at School Level, 7th rank at Zonal Level** in SOF's Cyber Olympiad 2017