

Pratyay Banerjee

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EDUCATION

- **Academy of Technology** Adisaptagram, India
 - *Bachelor of Technology - Electronics & Communication Engineering ; GPA: 8.57* July 2018 - Present
 - *Courses: Data Structures & Algorithms, Computer Networks, Machine Learning, Signal Processing, Calculus, Linear Algebra, Databases*

SKILLS SUMMARY

- **Languages:** Python, JavaScript/TypeScript, C++, C, SQL, Bash — ● **Hobbies:** Sketching,
- **Frameworks:** Vue, NextJS, TensorFlow, Keras, NodeJS, JAM — CP,
- **Tools:** Git, Docker, SQLite, IPFS, Pinnata — E-Sports
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, GCP
- **Soft Skills:** Leadership, Documentation, Public Speaking, Time Management

EXPERIENCE

- **Summer Research Program — IIIT Hyderabad** Remote
 - *Student Remote Internship Program (Part-time)* Mar'21 – May'21
 - **Preprocessing & Feature Extraction on NitroPhoenix:** Worked on speech and feature extraction from speech.
 - **Adaptive Speech input:** Built a speech recognition system using Kaldi.
- **Layer5 Inc.** Remote
 - *SDE-Intern (Part-time)* Jul'20 – Jan'21
 - **Open Source Maintainer:** Maintained **Service Mesh Performance** Project under **CNCF**
 - **Improvements added:** Revamped the UI, optimized pre-existing lazy loading components for performance snapshot.
 - **Other Impacts:** Resolved & Created **75+** issues and PR's as well as contributed to various CNCF incubating projects including **Meshery**, **Landscape**, **NightHawk** along with Documentation.
- **Spotle.ai** Remote
 - *SDE-Intern (Full-time)* Apr'20 – Jun'20
 - **Improvements added:** Removed jQuery dependencies & improved lighthouse speed by **30%**
 - **Payment Gateway:** Contributed to the cart component in payment gateway portal.
 - **Other impacts:** Worked on JWT and resolved session management issues & other minor bugs.

PROJECTS

- **ZenTube - YouTube Q&A processing (Data Scraping, NLP, Reverse Proxy, Multimedia Processing):** (Hackathon Project) Research oriented, open source application for *resolving questions as queries* from YT videos. Tech: ReactJS, Tailwind CSS, Firebase, NodeJS, Flask, AssemblyAi, Tensorflow.js, Nginx, Docker. (November 22, 2021 - View [▶])
- **RentEasy - Ez Connect Landlords x Tenants (Mobile App, Distributed Network, P2P, E2E, Smart Contracts):** A cross-device mobile app that's trustable by both potential tenants & house owners & worked on the *distributed storage API* & it's integration using **IPFS**. Tech: Flutter, Dart, JavaScript, Firebase, atsign-sdk & IPFS. (October 24, 2021 - View [▶])
- **Adoptic - Auto adapting Content-Scaling using CV (Web Plugin, Computer Vision, Image Processing):** Web-App tracking user's position and gesture to **auto-scale** populated content using proximity between user and source feed video. Tech: HTML, Bootstrap, JavaScript, pdf.js, ml5.js, Tensorflow.js & Posenet-API (March 21, 2021 - View [▶])
- **DistriC0D3 - Decentralized & No-database Code sharing (Web App, File Compression, WebTorrent):** A P2P decentralized no-backend text/code sharing web-app utilizing **LZMA** algorithm. DistriC0D3 has more than **500+** visits every month worldwide! Tech: HTML, CSS, JavaScript, WebTorrent, LZMA.js, Express (Jan-Aug, 2020 - View [▶])

ACHIEVEMENTS

- ◇ **Won 30+ International Hackathons** — Came **1st** in MetroHacks'21, HoyaHacks'21, uOttaHack4, & achieved Runner up position at several hackathons for e.g. Hacktech'21, hackUMBC Fall'21, PennApps XXII etc.
- ◇ **Build for Digital India**, Google (Feb'20) — Became regional finalist from **3800+** projects submitted across India.
- ◇ Selected for **Google India Scholarship & Secure and Private AI Scholarship** from Facebook Inc.
- ◇ **SAP Semicolon Hackathon 2019** — Team National Rank - **#8**
- ◇ **Google Hashcode'19** — Global Rank **#3673** ◇ **HackIllinois OSF'21** — (Fall Fellow)
- ◇ **Swami Vivekananda Scholarship** — West Bengal Govt. funded tuition and living expenses during Bachelor studies.

VOLUNTEER EXPERIENCE

- **Google Code-in — Tensorflow** Remote
 - *Mentored over 100+ students globally, tracked active issues & bugs.* Dec'19 – Jan'20
- **Core Team Member, Web Team in DSC-AOT** Kolkata, India
 - *Organized events, conducted workshops and delivered workshops reaching over 1000 Students.* Aug'20 – Jul'21
- **Mentored over 6 international Hackathons** Remote
 - *Helped participants fix bugs, resolve issues & delivered workshop sessions.* Jan'21 – Jun'21