

# Pijush Chakma

SOFTWARE ENGINEER

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## Personal Profile

A proficient software engineer with strong command in Python, JavaScript, React, Next JS, Electron JS, Django, FastAPI, Elastic Search, Material UI, C++, MVC, and Web API. Constant learner and ability to adapt to new technologies. Possess strong communication and team collaboration skills. Seeking an opportunity in the field of software engineering.

## Work Experience

### Reve Systems

Dhaka, Bangladesh

Junior Software Engineer

Nov 2022 - Nov 2023

- Collaborated with a diverse team to conceptualize and develop the **amarkantho** Voice Collection Tool, aimed at incentivizing public voice contributions in exchange for compensation.
- Contributed to the development of **sukontho**, a Text-to-Speech (TTS) voice collection tool, as part of a team effort.

### Reve Systems

Dhaka, Bangladesh

Software Engineer

Nov 2023 - Present

- Developed **Uccharon** and **Kotha** apps that met the public's text-to-speech (TTS) and speech-to-text (STT) needs. These tools sped up the whole TTS and STT process, making sure people got quick and efficient service.
- We utilized **Electron.js** for crafting two standalone desktop apps: **STT-Standalone** which employs speech recognition for accurate transcription, and **TTS-Standalone** an intuitive Electron.js tool enhancing accessibility and communication via text-to-speech conversion. Both applications offer offline inference of models, leveraging **ONNX** technology.

## Projects

### STT Service Tool - Kotha

Dhaka, Bangladesh

Reve Systems

[link](#)

- With this tool, users can simultaneously stream their voice and receive text prediction. In addition, users can upload any audio track and receive text prediction for it. Once they have the predictions, they can turn on punctuation by toggling the button. However, they have to sign in before using the streaming service or uploading audio that lasts more than 30 seconds. They can stream for up to **30 seconds** without logging in, after which the recording will automatically stop.

### TTS Service Tool - Uccharon

Dhaka, Bangladesh

Reve Systems

[link](#)

- The user can enter text using this tool by writing it down or pasting it, then pressing the play button. The tool will then send the text and get the audio and play the text one line at a time while highlighting the current line of text and the current word too. Users can also alter the content again and resend it for prediction after a particular segment or entire play, and it will continue to play as usual. In addition, users can get prediction audio by uploading **text, word, or doc** files. Additionally, user's can change the speaker (male and female) and they can change the speed of the audio and download the audio of any speed they want.

## Education

### Bangladesh University Of Engineering and Technology

Dhaka, Bangladesh

BSc in Computer Science and Engineering

- Completed coursework in every sessional courses.
- Completed many projects and some of them were group projects which helped me to communicate with the team and lead them.
- Demonstrated proficiency in CSE concepts through practical application in real-world projects.

### St. Joseph Higher Secondary School

Dhaka, Bangladesh

Higher Secondary School Certificate

- Graduated from Science group with a G.P.A Of 5.00
- Awarded dhaka education board general scholarship for exceptional result in HSC-2016

## Skills

### Programming Languages

Python, JavaScript, C, C++, Java, SQL.

### Frameworks & Libraries

Next.js, FastAPI, React.js, Electron.js, Django, Material UI, Tailwind CSS, Shadcn/ui

### Database

Elastic Search, Kibana (Data visualisation), PostgreSQL

### Others

Git, Linux, Shell Scripting, LaTeX