

RUDRA PRATAP SINGH CHOUHAN

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EDUCATION

Birla Institute of Technology & Science, Pilani

Bachelor of Engineering, Computer Science

August 2023

South Goa, Goa, India

SKILLS

C++, Python, Java, JavaScript, HTML, CSS, React, MySQL, Linux, Docker, Figma, Firebase, Amplitude, Git Version Control, Google Analytics, Communication, Collaboration

COURSEWORK

Course: Data Structure & Algorithm, Object-Oriented Programming, Operating System, Computer Networks, Database Systems, Computer Architecture, Design and Analysis of Algorithms, Compiler Construction

Electives: Statistical Inference & Application, Artificial Intelligence, Computational Neuroscience, Human Computer Interaction, Cognitive Neuroscience

WORK EXPERIENCE

Software Developer

Mewt

July 2022 – Dec 2022

Bangalore, KN, India

- Developed and maintained **1 Android App** (React Native) and **3 Web applications** (React.JS) for fintech.
- Covered **user onboarding**, **fraud detection** (50% reduction) & **UPI integrations**.
- Collaborated with stakeholders during development processes to **confirm creative proposals** and design best practices using **Figma**.
- **Integrated APIs** streamlining data exchange and improving overall project efficiency.
- Conducted **routine updates**, **security patches** & **bug fixes** to **maintain** the software stability.

Automation Engineer

Village Book | It takes a Village

June 2021 – August 2021

Mapleton, UT, USA

- Developed a **Chrome extension** that enabled real-time language translation during video calls utilizing Microsoft's Azure translation services.
- **Automated** an agent to enter Google Meet and record the video with transcript, and save it in Google Drive.

PROJECTS

Neuron Simulation & Introduction Of Noises – Computational Neuroscience

March 2023 – May 2023

- Conducted **simulation** of the Hodgkin Huxley model to analyze theoretical and recorded values at steady state.
- **Introduced** diverse **noises** to investigate their impact on the **behavior of action potentials and currents in cells**.

Tetris Programming Language – Compiler Construction

March 2022 – May 2022

- Developed and launched a **custom-designed programming language** for creating Tetris games.
- Implemented **scanner** and **parser** using SLY library in Python, and utilized **Pygame** for graphics rendering.

Blink Assist – Human Computer Interaction

Feb 2022 – April 2022

- Developed software solution to **improve user blinking** frequency without disturbing immersion.
- Increased blink rate from **1.1 to 3.6 blinks per minute** in just one hour of use by implementing screen **dimming** and **restoration**.

Design of ALU circuits – Computer Architecture

Aug 2021 – Dec 2021

- Analysing the various ALU circuit designs.

CERTIFICATIONS

Fundamentals of Deep Learning | NVIDIA

July, 2021

Building Transformer-Based Natural Language Processing Application | NVIDIA

August, 2021

VOLUNTEER

Teaching Assistant – Mechanical, Oscillation & Waves

- Assisted with **teaching** and **solving doubts** for students on regular basis and **guiding** the students in the subject.

SCORES

– BITSAT

Score : 355/420

EXTRA-CURRICULAR

- Won **National College Ultimate Championship NCUC'23** and became the best college team of India.
- Work towards **social upliftment** by teaching underprivileged students and **organizing fun events** monthly.
- **Core** member of **Department of Arts & Decorations**. Worked on mega art structures of college fest.