Amit Rakshit

Sr. Software Engineer | JavaScript-TS-React-Node-NextJS-Python

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EXPERIENCE

HCL Software, Bengaluru, India — *Senior Software Engineer 2*

April 2023 - PRESENT

- Developed a Figma plugin leveraging **prompt engineering** and **Large Language Models (LLMs)** to automate the conversion of Figma designs into IRIS forms.
- Engineered an **incremental upgrade mechanism** for VoltMX IRIS, optimizing **software deployment** and achieving an **80% reduction** in package size and a **50% decrease** in upgrade time.
- Architected and implemented a **Retrieval-Augmented Generation (RAG)** chatbot utilizing **Langchain** and **Ollama models (llama-3)** to address product-related inquiries, resulting in a **20% increase** in user engagement.
- Led the **end-to-end integration** of an **AI/ML pipeline** within the Node-Webkit (NW.js) based IRIS application, applying **DevOps practices** for seamless deployment.
- Developed a proof-of-concept (POC) for a **JIRA add-on** to integrate with IRIS, streamlining backend workflows and reducing development time through enhanced **system integration**.
- Successfully executed **software debugging** and resolved **over 50 critical bugs**, significantly enhancing application performance and functionality through rigorous **software testing**.
- Spearheaded the **revamp of the UI/UX** of Volt MX Iris app and redesigned popups, resulting in a significant improvement in UX and increased user retention.

Hero Vired, Bengaluru, India — *Software Engineer*

Sept 2022 - April 2023

- Designed and implemented **backend solutions** using **Node.js and NestJS** for an application generating offer letters for students, contributing to a **20% increase in sales**.
- Developed a **loan management software** plugin for the existing application, which helps in managing the loan applications with multiple loan partners.
- Integrated **Razorpay** into backend applications, ensuring a **smoother payment flow** for customers.
- Revamped the Vlearn dashboard using ReactJS, which helped **increase the user retention** time by **15-20%**.

SKILLS

JavaScript, **TypeScript**, Python, **React,** Redux, NextJS, **Node**, Express, **NestJS**, **FastAPI**, postgreSQL, mongoDB, HTML, CSS, Tailwind, Firebase, Appwrite, **Docker**, Aws S3, Aws Lambda, **RAG**, **Langchain**, Ollama

AWARDS

Extra Mile award for exceptional performance at Byjus.

DST INSPIRE scholarship for standing within top 1% of the board on 10+2 level.

NTSE scholarship for clearing the nationwide exam.

LANGUAGES

English, Hindi, Bengali

HOBBIES

- Playing guitar Instagram: amitrakshit_official
- Teaching on YouTube TheTechRakshit https://www.youtube.com/@thetechrakshit
- Photography

Think and Learn (Byjus), Bengaluru — *Lead Developer*

Jul 2019 - Sept 2022

- Developed a Config Editor using **Electron JS** for the design team, **reducing the creation time** of config.json files by **50%**.
- Contributed to game development using **HTML**, VanillaJS, and CSS.
- Developed Proof Concept(POC) game module for the internal content team, which later became part of Byju's app.

PROJECTS

R Music — *https://r-music-seven.vercel.app/*

R music player is an online music player with player controls and search feature. It has a search feature. You can search for your favourite music and play.

Skills: NextJS, React, TailwindCSS, Vercel, Google Cloud Function, Express, Node

PCA Learning Website — *https://pcalearning.in*

PCA learning or Pakrashi Computer Academy is a computer education company and this is the main landing page for their business.

Skills: NextJS, React, TailwindCSS, Vercel

Interactive Learning Elements — *https://amitrakshit.github.io*

These are some engaging HTML simulations designed to enhance students' math and science skills through interactive challenges and puzzles.

Skills: React, HTML, CSS, JavaScript

RTuner — *A simple guitar tuner*

This ANDROID app is a simple guitar tuner app that uses the microphone to detect the frequency of the sound and displays the note on the screen.

Skills: React Native, Typescript, Native (Kotlin) modules

EDUCATION

Indian Institute of Technology Bombay, Mumbai — *M.Sc. in Physics*

July 2017 - April 2019

Got into the institution after clearing IIT Jam 2017 with an AIR 151. Stood within top 10 in the batch. Received AA(highest in IITB) on my Masters project.