SIDHARTH SHAMBU

Raleigh, North Carolina

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Education

National Institute of Technology

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Bachelor of Technology in Chemical Engineering, Minor in Computer Science

• Computer Networks

• Database Management

Relevant Coursework

- Data Structures
- Software Engineering
- Experience

Cashfree Payments

Fullstack Software Engineer

• Spearheaded the development and deployment of a solution for handling paused UPI Autopay subscriptions, resulting in a significant improvement in Pre-debit notification success rates (upto 91%) and a 100% reduction in merchant inquiries regarding pre-debit notification failures.

• Artificial Intelligence

• Operating Systems

- Led the project to reintroduce card payments for subscriptions by migrating from SOAP APIs to RESTful APIs with Cybersource (VISA), ensuring compliance with RBI regulations and improving the merchant experience with features like card tokenization. This addition completed Cashfree's payment suite supporting over 4 payment methods.
- Independently executed the revamp of merchant dashboard and designed and implemented a suite of APIs extending Cashfree's subscription service, enabling merchants to create tailored checkout experiences. This led to an increase in customer satisfaction score by 40%.
- Played a key role in multiple initiatives including the migration of subscription tables to a dedicated MySQL cluster (v5.0 to v8.0 upgrade), enhancing scalability and security, and contributing to the Cashfree-wide React version upgrade (from v16 to v18), significantly improving performance and security across Cashfree's react applications.

Nymble

August 2021 - November 2021

Remote/Bangalore, India

Fullstack Developer Intern

- Created a web app with VueJs and GraphQL for visualizing operational data like voltage fluctuations and thermal images, upgrading diagnostic capabilities for the Nymble cooking robot (EatWithNymble).
- \bullet Developed polished and responsive user interfaces from design mockups, emphasizing aesthetic appeal and accessibility. ${\bf Projects}$

Google Summer of Code - LibreCube | Python, Gitlab CI CD, ESP32

- Developed a Python implementation of the CCSDS USDLP a network protocol for earth to space data transfers, advancing data transfer capabilities in space exploration and addressing the scarcity of open-source solutions in the field. Full report shambu.bearblog.dev/gsoc-21-librecube/.
- Developed Transfer Frames with error detection, strengthening data integrity.
- Defined methods for seamless data insertion, multiplexing and de-multiplexing.

Android UPI App Intent Opener | Javascript, Kotlin

- Designed a simple library which business can use to open the payment screen on a specific UPI App.
- Supports 15+ UPI Apps from the webview.

VisaSlotAlert Bot | Javascript

Developed a Telegram bot utilizing Cloudflare Workers for hosting, designed to notify subscribers about F1 US Visa slot openings, significantly aiding over 5000+ students in securing visa appointment slots.
Monetized the bot by integrating with Setu.

Technical Skills

Languages: Java, Go, C++, HTML/CSS, Typescript, Python, SQL Developer Tools: VS Code, Jetbrains IDEs, Chrome Devtools, Git, Github/Gitlab/Bitbucket Technologies/Frameworks: Spring, Kafka, ActiveMQ, Redis, AWS SQS/EC2/S3/Cloudfront, NodeJs, GraphQL, React, SvelteKit, VueJs, Linux

Leadership / Extracurricular

College Web Team

Lead

- Led a team of 3 junior developers in the successful revamp of nitt.edu, improving user experience and functionality using Wagtail CMS.
- Managed ongoing maintenance and updates for the official college website, ensuring timely content updates.

April 2024

June 2024

May 2021

NIT Trichy

July 2019 - May 2022

June 2022 – June 2024

• Algorithm Analysis

• Compilers

July 2018 - May 2022

Trichy, Tamil Nadu, India

Bangalore, India