

Parimal Prasoan

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EDUCATION

Bachelor of Technology in Computer Science and Engineering
VIT BHOPAL UNIVERSITY

Bhopal | Jul 2017 - Jul 2021

WORK EXPERIENCE

BANK OF AMERICA | SOFTWARE ENGINEER

Mumbai | Jun 2021 - Present

- Alleviated code redundancy and improved developer productivity by designing and implementing a common module using **Python** which helps create in-memory fixtures and mock trade data for building unit tests with better coverage.
- Improved client experience by implementing feature to support Unicode character filtering in search screens.
- Developed **Unit Tests** with over **85% coverage** for critical modules performing validations and reconciliation on 100k+ trading data every day.
- Handled full **Agile** release cycle of BookMap, an enterprise application for creation and maintenance of global trading data, performed **regression tests** and handled Production to UAT data refresh.
- Performed peer **code reviews**, sprint planning and solved multiple QA/UAT/Prod issues as part of **ROTA support**.

KWIKPIC | SOFTWARE ENGINEERING INTERN

Mumbai | Jan 2021 - Jun 2021

- Built custom **Django** Middlewares for in-house use and developed API endpoints using **Django REST** framework.
- Improved client experience by integrating web socket protocol using **Django Channels**.
- Improved production workflow by shifting to event driven architecture using **Redis** PUB-SUB messaging system, implemented non-blocking and asynchronous processing using threads for better parallel processing.
- Built schemas and deployed **PostgreSQL** database for data handling, integrated with Django web application using SQL Alchemy.
- Expanded overall client support by integrating various **storage API's** such as **GDrive**, **DropBox** and **OneDrive** into content delivery workflow.
- Improved developer productivity by building and deploying a **Docker** container for Django, Unicorn and Nginx.
- Built various internal **pip modules** for further improving code re-usability.
- Launched an **Amazon EC2** instance for server and code deployment as well as **S3 buckets** for file hosting of clients and content delivery.
- Created a fully featured photo portal using **HTML/CSS/JavaScript**, integrated **Twilio API** for sending notifications to clients on WhatsApp and SMS.

PROJECTS

RAW IMAGE PROCESSOR 

C++ console application that converts a RAW file generated from cameras into a Bitmap file using linear interpolation. Uses **dynamic linking** for reducing executable file size and **CMake** script for build automation.

CHESS ENGINE 

JavaScript application which uses mini-max algorithm and alpha-beta pruning for picking the best chess moves.

MINI SQLITE 

Simple database from scratch built using **C** language, supports disk persistence, indexing and searching.

PATHFINDING VISUALIZER 

C++ application which provides a visualization of the path found by algorithms such as Dijkstra's and A* using **SFML** framework for creating GUI.

SKILLS

Languages: C, C++, Python, JavaScript, Java, Bash

Databases: Redis, SQLite, PostgreSQL, MySQL

Technology: Linux, Jira, CMake, \LaTeX , Git, Docker

Cloud Services: Heroku, AWS, GCP