SAKSHAM ARORA

Software Engineer

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EXPERIENCE

Juspay　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Bangalore, India**
Product Engineer - 1　　　　　　　　　　　　　　　　　　　　　　　　　*June 2022 - Present*
- Improved the reconciliation and settlements process of UPI payments resulting in **2x faster** performance
- **Lead** the optimization initiative to address slow service response time and database queries
- **Owned** development and maintenance of microservices for various payment settlement products
- Resolved support issues, assisted with code reviews, and helped onboard new hires to the products

Juspay　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Product Engineer Intern　　　　　　　　　　　　　　　　　　　　　　　　*July 2021 - May 2022*
- **Collaborated** with multiple teams to develop services, build APIs, and contributed to data-oriented decisions
- Designed various reconciliation and settlement strategies tailored to merchant-specific data formats
- Utilized Python, R, Haskell, and PostgreSQL to automate and streamline the settlements process

Python Software Foundation　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Project Mentor　　　　　　　　　　　　　　　　　　　　　　　　　　*May 2021 - August 2021*
- **Guided 3 student developers** for Intel's Open-Source project **DFFML**, in Google Summer of Code
- Co-ordinated and participated actively in brainstorming ideas, reviewing, and collaborating with students on features

Python Software Foundation　　　　　　　　　　　　　　　　　　　　　　　　**Remote**
Google Summer of Code Student Developer　　　　　　　　　　　　　　*May 2020 - August 2020*
- Contributed to Intel's Machine Learning project. Project: **Integrating Image Processing into DFFML**
- Implemented wrappers for OpenCV functions for image processing and added CLI support for pre-processing dataflow
- Added Pre-trained PyTorch CNN models and added support for creating robust Deep Learning pipelines from scratch

EDUCATION

Maharaja Agrasen Institute of Technology　　　　　　　　　　　　　　　　**Delhi, India**
Bachelor of Technology in Information Technology　　　　　　　　　　　　*July 2018 – June 2022*
- Graduated with a **CGPA of 9/10**. Major Project and Research: Deep learning Image Colorization pipeline using PyTorch
- Core member for the Google Developers Technical Society. Contributed by delivering talks and organizing hackathons

PROJECTS

Handwrite ⬈ | *Python, Typography, Image Processing, Flask, React*　　　　　　*December 2020*
- Developed a tool that lets anyone create custom fonts based on their handwriting that can be used in text editors
- Available as a Python Package (more than 5,500 downloads) and as a React **WebApp** 🔗

Simulate ⬈ | *Flutter, Dart*　　　　　　　　　　　　　　　　　　　　　　*January 2020*
- Collection of more than 10 informative and beautiful simulations based on mathematical concepts and algorithms
- Support for Android, iOS, and Web

BoxIt ⬈ | *Flutter, Dart, NodeJS*　　　　　　　　　　　　　　　　　　　　　*April 2021*
- A Flutter-based multiplayer dot connecting game using Websocket server in NodeJS. It can be played by 2-4 players

Other Projects | *Deep Learning, Computer Vision, Reinforcement Learning*
- **Sudoku Solver**: A Computer Vision based project to solve a 9x9 Sudoku using unsolved sudoku images as input
- **RoadFighterAI**: Employed NEAT and Deep Q-Learning techniques, trained AI agents to navigate on road without collisions

TECHNICAL SKILLS

Languages: Python, R, JavaScript, Dart, ShellScripting, Haskell, SQL
Tools and Frameworks: FastAPI, Flask, NodeJS, React, Django, Tidyverse, SQLAlchemy, PostgreSQL, MySQL, Heroku, Docker, Firebase, Git/GitHub, Pandas, Numpy, PyTorch, OpenCV, Elasticsearch, CI/CD
Interests: FullStack Development, Product Engineering, Research, Computer Vision, Open-Source, Mathematics, Statistics

OTHER EXPERIENCES

Maintainer - DFFML | *Python, Machine Learning*　　　　　　　　　　　　　　　*Remote*
- Contributed to the rewriting of dataclasses and config architecture, guided new contributors, and authored documentation.

Mentor - GirlScript Summer of Code | *Flutter, Dart*　　　　　　　　　　　　　　*Remote*
- Mentored more than 40 students in open source program Girlscript Summer of Code '20 and '21 on selected project: Simulate