Swarnava Ghosh [in] [github]

An enthusiastic Software Engineer, excited with new tech trends and eager to make valuable contributions towards building innovative software at scale.

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EXPERIENCE

Maistering India Pvt. Ltd. — *Application Services Engineer Intern*
BENGALURU, INDIA (ON SITE) | DECEMBER 2021 – PRESENT

- Full-stack **ASP.NET C#** – **Angular** Development in a product-based environment.
- Improved coding practices and performance of APIs (up to 200x).
- Revamped Angular module from 12,000 lines monolith to decoupled submodules.
- Notified key security vulnerabilities impacting more than 2,000 API endpoints.
- Review and merge PRs from peer engineers to develop.

Fleapo Co. — *Freelance Automation API Developer*
KOLKATA, INDIA (REMOTE) | JULY 2021 – OCTOBER 2021

- Implemented a distributed job scheduler using **Python** and **Celery** with **Redis** and **FastAPI**, as a part of an automation workflow. (Project: **scentcraft.com**)
- Rendering **Blender** animations from API calls and uploading outputs to **AWS S3**.
- Ubuntu and Windows Server admin, deployment, documentation and debugging.

PhotoSceneThesis Media Group — *Freelance Web Developer*
KOLKATA, INDIA (HYBRID) | SEPTEMBER 2019 – JULY 2020

- Developed and deployed **5 LAMP stack** and **2 WordPress websites** in a team of 2.
- Server management and production bug fixing.
- Requirements analysis and client relations. Logo and poster design.

PROJECTS

shornabho.com — *Personal Portfolio Website* 🔗
FULL STACK DEVELOPMENT | APRIL 2022 – PRESENT
- Creating Figma Designs, Development, Deployment and Domain Registration.

TypeScript | Sveltekit | Supabase | Netlify | Figma

Courseman — *A Personalised Learning System*
FULL STACK DEVELOPMENT | JULY 2021 – PRESENT
- SOA System Design, Novel Youtube Scraper, JWT Auth, Redux State Management.
- Converting Wireframes to Code, Bitbucket Administration, Code Reviews, Merging PRs, Documentation.

JavaScript | React.js | Redux | Express.js | Python | FastAPI | MongoDB | Bitbucket

Journo — *An Anonymous Journaling cum Social Network Application*
FULL STACK DEVELOPMENT | JANUARY 2021 – MAY 2021
- Development, System Design, 3NF DB Design, Documentation.
- One-to-one Anonymous Chat, Anonymous Posts, Notifications, Like, Follow.

Python | Flask | SocketIO.js | PostgreSQL | HTML | CSS | Bootstrap | JavaScript

Dotadoodle — *An Online Magazine* 🔗
FULL STACK DEVELOPMENT – TECHNICAL CO-FOUNDER | JUNE 2020 – PRESENT
- Design, Development and Production Deployment – NGINX reverse proxy, SSL setup.
- Site migration from Angular to server-rendered Express.js site for better SEO.

JavaScript | Express.js | Firebase | AWS EC2 | GCP Compute Engine | NGINX | HTML | CSS | Angular

F-Sense — *A Finance Simulation Training Software*
FULL STACK DEVELOPMENT | JULY 2019 - SEPTEMBER 2020
- Requirements analysis, Design, Development & Dev Deployment with 3NF DB Design.
- Dynamic Table Generation, Report Generation and Data Visualization pipelines.

Python | Flask | Pandas | MySQL | HTML | CSS | Bootstrap | JavaScript | D3.js

FracLab — *Fracture Detection (Image Processing & Supervised Learning)*
FULL STACK DEVELOPMENT - ML TRAINING - RESEARCH | NOVEMBER 2019 - FEBRUARY 2020
- Web application development, deployment and integration for product demo.
- Google Vision API integration for input validation of digital X-ray images.
- Training & Deployment of **SVM** and **GLCM** models.

Python | Flask | numpy | sklearn | OpenCV | HTML | CSS | Bootstrap | MySQL

EDUCATION

Christ University
MSc, Computer Science
MAY 2020 – PRESENT
CGPA: 9.15/10

BSc, Computer Science, Mathematics, Statistics
MAY 2017 – MAY 2020
CGPA: 9.44/10

Calcutta Boys' School
ISC (Science), ICSE
APRIL 2004 – APRIL 2017
ISC: 86.25% | ICSE: 91.8%

SKILLS

Languages:
Python, JavaScript, TypeScript, Java, C#, C, HTML, CSS, Bash

Frameworks & Libraries:
Flask, Express, FastAPI, Celery, React.js, Angular, ASP.NET

Databases:
MySQL, PostgreSQL, MongoDB, Redis, CosmosDB Gremlin

Tools & Technologies:
Git, SSH, Linux, Docker, GCP, AWS

Domains & Concepts:
Web Development, REST, MVC, SOA, Database Normalisation, Automation, Web Scraping, Web Sockets

ACTIVITIES & ACHIEVEMENTS

Member of Placements Committee – Mentored peers and led multiple training sessions for technical rounds and coding interviews.

1st in Coding and Debugging event of Gateways 2020, Annual Tech fest, Dept. of Computer Science, CHRIST.

A+ grade in Basics of Python Workshop conducted by **IIT Bombay**, as a part of the FOSSEE Project, Government of India.

Volunteer, Pratham Education Foundation – *Technical Translator* – Translating the Scratch Programming interface to Bengali in collaboration with **MIT Labs**.

1st in various photography events – **Saarang 2019** (Cultural Fest, **IIT Madras**), **Darpan 2018** & **Darpan 2019** (Intra-College Fest of CHRIST), et al.