

🧰 Experiences

Senior Open Source Developer (Remote)

OpenCraft · March 2022 - Present

Core technologies: **Python, Typescript, React, and Docker**

We as OpenCraft provide managed hosting for Open edX deployments small enough to serve small organisations or large enough for a nation state. We also work on implementing new features and fix bugs in Open edX.

Currently, my responsibility is developing new features for Open edX, like the new library authoring experience.

Key Achievements:

- Built **xblock-skill-tagging** Open edX plugin from scratch to automatically tag content in courses and use user feedback to verify and finalize them.
- Built **event-bus-redis** from scratch which serves as a Redis Streams implementation of Open edX event bus. Joined Open edX **Core Contributor** program following this contribution.
- Built **Course outline** functionality using React and Typescript for Open edX Studio.
- Built UI foundation of **ListafLOW** using React and redux. ListafLOW is an Open Source web application for tracking your recurring business practices and checklists.
- Currently, contributing my time to build the new **library authoring** experience.

Authorized Officer

UBS · Jan 2018 - Feb 2022

Core technologies: **Python, VueJS and GNU/Linux**

Serving as a key member of the team developing an automated model documentation solution for the entire

Navin Karkera



Full Stack Developer

I'm a Full Stack developer with experience in creating scalable and robust applications using Python and Web technologies. Working with both start-ups and large organisations has prepared me to perform in a variety of situations.

YouTube Channel

Name: **ITcracy**

You can also find me on YouTube (*not active anymore*), where my software developer friend **Ishan Masdekar** and I share our expertise in programming languages and other technologies.

Learning new things

division, as well as taking on multiple side projects such as developing web apps, automating ETL operations, and developing reporting solutions for various teams.

Key Achievements:

- Core developer for the project **DocKit**, a division-wide solution for document automation that involves everything from **JupyterLab** plugins to smart notebook merging. We're automating the process of model validation and confirmation by using **pandoc** to convert from one format to another, such as jupyter notebooks to markdown to LaTeX, and **Jinja** templates to dynamically generate LaTeX files. I contribute on the tool's planning, development, documentation, and on boarding with clients.
- Using **Python/Pandas/Flask**, developed a reporting system for Risk Weighted Assets (RWA) that considerably decreased the cost and time it took to prepare reports that were delivered to FED Regulators.
- Developed static and dynamic web pages while working in Agile methodology. to construct smart applications utilising tools like FastAPI, VueJs, and NLTK/Spacy such as FAQs, share reporting to regulators, and so on.
- Created solutions using Python Airflow, Pandas, and other tools to automate ETL-like processes involving Chief Risk Officers, such as reporting of shortfalls, violations, and ECN limits, among other things. These were seen as a huge aid to the bank during pandemics.
- Learned about data processing and machine learning while working on the **data quality** project, which was an attempt to detect data quality issues in data received from other banks and manually scanned by Risk Officers.
- Managed several deployments on Azure-hosted GNU/Linux machines. Using tools like systemd and nginx, I was able to secure the web services. Wherever possible, automated deployments utilising

In my spare time, I enjoy learning new technologies such as Rust, Bun and Go, as well as customising my GNU/Linux setup. I use Neovim as my primary editor and am always looking for ways to improve it.

Languages

English (Fluent)

Hindi (Fluent)

Hobbies

Travelling

Music

Reading

Education

Bachelor of Engineering

University of Mumbai · 2011 - 2014

Electronics and Telecommunication

Diploma

Maharashtra State Board of Technical Education · 2008 - 2011

Industrial Electronics

Skills

Python, Django, FastAPI

bash scripts, python doit, and other tools.

- Conducted Python Workshops.
- Won a hackathon and assisted in the organisation of another.
- ***Promoted to Authorized Officer from Employee position..***

Senior Software Developer

Bank of America · Feb 2017 - Jan 2018

Core technologies: **Python, SQL**

Worked for Market Risk team solving architectural design issues and code level issues. Built complete systems to automate a manual process and also helped migrating complete projects from Java to Python platform.

Key Achievements:

- Initiated a project called Chat-Bot, built it from scratch using NLTK and Django rest framework, also integrated it with Skype for Business.

Lead Developer

Digital Freedom foundation · Feb 2015 - Feb 2017

Core technologies: **Python, Postgres, Docker and GNU/Linux**

I began my career as a software developer in a start-up, where I was responsible for all aspects of a web application, including design, development, and deployment. GNUKhata, a free and open source accounting and inventory software, was the project. It was built from the ground up utilising the **Pyramid Pylons framework, bootstrap, JQuery, Postgres, Docker**, and other tools.

Key Achievements:

- In the first two years, I learned the most about Python programming and web technologies, and I contributed significantly to the GNUKhata project.

Git

Javascript, Typescript, React

Airflow/Prefect

Sql, PostgresSQL

Rust

Go

- Learned about containerized environments as part of the process of leveraging Docker to make the GNUKhata platform agnostic.
- Along with the DFF team, conducted many FOSS workshops at institutions in Maharashtra, India.