

## 📁 Experiences

### Authorized Officer

UBS · Jan 2018 - Present

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

Serving as a core member of the team working on building an automated model documentation solution used by the whole division, while handling multiple side projects individually such as building web applications, automating ETL like processes and reporting solutions for different teams.

*Key Achievements:*

- Developing major features for division wide solution for documentation automation (DocKit) ranging from JupyterLab plugins to **smart merging** of notebooks. Using pandoc to convert from one format to another i.e. jupyter notebooks to markdown to LaTeX and Jinja templates to dynamically generate LaTeX files, we are automating the process for model documentation, confirmation and validation. I am involved in planning, development, documentation and working with clients to onboard the tool.
- Developed reporting solution for Risk Weighted Assets(RWA) using Python/Pandas/Flask which greatly reduced cost and time to generate reports which is sent to FED Regulators.
- Worked in Agile Methodology to develop static sites and dynamic web applications using tools like FastAPI, VueJs, NLTK/Spacy to build smart solutions like google like FAQ, shares reporting to Regulators etc.
- Built solutions using Python Airflow, Pandas etc. to automate ETL like process involving Chief Risk Officers which included reporting of shorfalls, violations, ECN limits etc. These were recognized as a major help for the bank in pandemic times.
- Got a chance to learn about data processing, training machine learning models while working **data quality** project which was an attempt to detect data quality issues in data received by other banks which was manually scanned by Risk Officers.
- Handled multiple deployments in GNU/Linux servers hosted on Azure. Secured the web services using tools like systemd, nginx. Automated deployments using bash scripts, python doit wherever possible.

## Navin Karkera



### Full Stack Python Developer

I am a software developer working as a Python Automation Expert in UBS, automating different process using Python and web technologies.

In my own time, I like to learn new technologies like Rust, Go and customize my GNU/Linux setup. I use Neovim as my main editor, and like to improve my workflow with it.

### Languages

English (Fluent)

Hindi (Fluent)

### Hobbies

Travelling

Music

Reading

## 🎓 Education

- Conducted Python Workshops.
- Won a hackathon and helped in conducting another hackathon.
- *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

Started my career as a software developer in a start-up where I worked on everything related to a web application, from designing, development to deployment. The project was a Free and open source accounting and inventory software called GNUKhata. Built it from scratch using Pyramid pylons framework, bootstrap, JQuery, Postgres, Docker etc.

*Key Achievements:*

- Learnt about programming in Python and web technologies the most in the first two years and contributed extensively to the project GNUKhata.
- Grasped concepts of containerized environments in the process of making deployment of GNUKhata platform independent using Docker.

## Bachelor of Engineering

University of Mumbai · 2011 - 2014

*Electronics and Telecommunication*

## Diploma

Maharashtra State Board of  
Technical Education · 2008 - 2011

*Industrial Electronics*

## Skills

Python, Pandas, FastAPI



Git



Javascript, VueJs, working knowledge  
of CSS



Airflow/Prefect



Sql, PostgreSQL



Flask/Django



Rust

