Surname *Given name*

TAMBE TABITHA A.

SOFTWARE ENGINEER

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PROFILE SUMMARY

Developer, open-source contributor, and speaker with three years of professional experience in building software using Python and React. Particular expertise in the creation of data tooling and UX design for web applications. Starting the professional MSc in Software Engineering (part-time) at the University of Oxford.

TECHNICAL SKILLS

- Python
- Figma
- Git
- Analysis
- React
- TypeScript
- HTML/CSS
- Modelling
- Django
- Unit testing
- Data validation

PROFESSIONAL SKILLS

- Usability testing
- Debugging
- Thought leadership
- UX redesign
- Refactoring
- Cost-Benefit analysis.

INDUSTRY CONTRIBUTIONS

- Speaker at GitHub's celebration of Ada Lovelace day 2022
- Speaker at PyData London conference 2022
- Speaker at PyData London meetup February 2023
- Guest speaker at Lufthansa Tech, and NESTA
- Lead for Google Women Techmakers community, Buea
- Google Developer Group Buea organiser
- Google Crowdsource community co-lead

Open source contributions.

- Release manager for three PyPI packages https://pypi.org/user/tab1tha/
- Contributed to pandas 1.0.0 https://pandas.pydata.org/pandas-docs/version/1.3.5/whatsnew/v1.0.0.html

WORK EXPERIENCE

Social Finance UK

October, 2021 - Present

I am the ongoing maintainer of the reference data reporting tool for IPS services whose use has now been mandated nationally. It is a full-stack Django app and the production infrastructure involves Heroku, Docker, Selenium, Celery, Redis, AWS S3, PostgreSQL, and Papertrail.
An even broader variety of skills and technologies have been used across other projects.

Dev role: Data Engineering [Dagster, Pandas, PyPI]
Project: multiple projects

- Created fact and dimension tables for the pipeline in the London data platform.
- Implemented pandas data transformation modules that were plugged into larger projects as PyPI packages.

Dev role: Lead Back-end Developer [Pandas, Click, Pytest, Pyodide]
Project: https://github.com/data-to-insight/CIN-validator

- Led a team of 12 entry-level coders - prioritising tasks, reviewing pull requests, and leading standup, from inception to live.
- Built core data ingress, validation, and report functionality. Responsible for delivery.
- Bug fixing and maintenance of tool (Python/React). Calculated benefits case of the project.

Dev role: Back-end Development [Django, Material design]
Project: https://github.com/SocialFinanceDigitalLabs/family-context-live

- Built data ingress. Implemented model and processed data from command line to database.
- Built audit logging for user activity.

Dev role: Front-end Development [TypeScript, Django]
Project: https://github.com/SocialFinanceDigitalLabs/sf-django-filesystem

- Built file upload and error handling UI for application front-end.
- Built feature-flag system for runtime application configuration.

Dev role: Prototype Development [Figma]
Project: Digitisation of an NHS health-evaluation tool used nationally (4-person multidisciplinary team)

- Proposed first draft of UX redesign based on synthesis of user need. Built Figma prototype.
- Co-led 30 usability testing sessions while iteratively improving on prototype design.
- Prepared first draft of proposed technical architecture for digitised tool.

Dev role: Quantitative Development [Pandas, Markov, Pyodide]
Project: https://github.com/data-to-insight/cs-demand-model

- Built cost calculation module of forecasting model.

Dev role: Back-end Development [Pandas, Numpy, Pytest, Pyodide]
Project: https://github.com/data-to-insight/quality-lac-data-beta-validator

- Part of two-person team that took tool live. **Gave a talk** at Pydata London conference 2022.
- Bug fixes and maintenance of live tool. Refactored full repo for better maintainability.

Dev role: Tech consulting and architecting

- Evaluated the technical infrastructure of case management systems in the social sector.
- Coached health teams on how to prototype and test their tech ideas.
- Acted as a judge in a hackathon at UCL (University College London)

Mentoring and Cross-organisational experience

The data validator projects built on Pyodide were a solution to the lack of trustworthy data in the children's social care sector. Several analysts from the sector joined the project to learn Python and build the tool so that they could keep maintaining it.
https://www.socialfinance.org.uk/insights/analysing-sensitive-data-at-scale-doesnt-have-to-be-a-headache
The modular nature of the data validator projects were ideal for community building. So, in addition to building core functionality and being responsible for delivery, was responsible for

- managing agile ceremonies
- reviewing and merging pull requests
- making design decisions during implementation
- ensuring that documentation was in place and that decisions and pivots were traceable

Team-building work at Social Finance

Enabled shared learning across the team

- Coordinated monthly show-and-tell sessions attended by SF UK, US and SF Netherlands.
- Wrote weekly newsletter, highlighting achievements across ongoing projects
- Coordinated fireside chat with outgoing team lead and led discussion with incoming lead

Taught in team's dev learning sessions

- How to automate issue creation on GitHub
- Lessons learnt from rebuilding a validator
- Lessons learnt from building a software prototype
- Git advanced techniques workshop

EDUCATION

2016 - 2020

BEng in Electrical and Electronic Engineering
University of Buea. GPA: 3.63 / 4.0 - First Class

- President of the Electrical and Electronic Engineering student association.
- Project: Built incubator, with autoregulation and remote monitoring, for premature babies.