

# Swarnim Sonawane

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## WORK EXPERIENCE

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### Bloomberg L. P.

Aug. 2022 – Present

*Software Engineer*

*Pune, Maharashtra*

- Worked as a full-stack engineer on multiple client-facing projects in the Trading Systems department and took them to completion while making significant overall contributions.
- Redesigned and modularized backend C++ services thus improving their performance, maintainability, observability and boosting test coverage to up to 90%.
- Contributed to porting legacy C++ libraries to Linux and designed new and simplified interfaces for other engineers to use them.
- Engineering lead for a new project to build a clean & responsive UI for performing operations on custom data lists. Optimized the UI memory footprint to increase performance and improve user experience.

### Bloomberg L. P.

Feb. 2022 – May 2022

*Software Engineer Intern*

*Pune, Maharashtra*

- Interned on a project to unify two buy-side systems AIM and PORT in Trading Systems for a better client-side experience.
- Contributed to UI enhancements for this project and added new functionality requested by clients to the backend C++ service powering the same.

### Sarvatra Technologies

Aug. 2020 – Oct. 2020

*Data Science Intern*

*Pune, Maharashtra*

- Worked on a data science project aiming to predict fraudulent debit card transactions using multivariate outlier detection. Created models which were able to flag fraudulent transactions and learn the minute details and patterns of individual cardholders.

## EDUCATION

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### Pune Institute of Computer Technology

May, 2022

*B. E., Computer Engineering*

*Pune, Maharashtra*

- Honors in Data Science
- CGPA - 9.8 / 10

## PROJECTS

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### Regression Test Suite for Payment Switches

May 2022

*Final Year B. E. Project (sponsored by Sarvatra Technologies)*

- Developed a framework to automate the testing of debit card payment switches. Studied the details of the standard ISO8583 protocol for financial transactions and used the jPos library to simulate an NPCI gateway for regression testing of payment switches. Wrote a research paper covering the details available on [arxiv](#).

### Arkvl

Aug. 2020

*A modern Book Recommender System*

- Arkvl is a web-based book recommender system that my team and I built which recommends books to users based on their likes and lets users explore books from a wide catalogue based on their favourite authors and genres. The website reached a peak of over 2000 users. ([Github](#))
- I worked on the recommender model in Python and worked on the front-end of the web-app using React.js.

## SKILLS & INTERESTS

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- **Technical Skills:** C++, Python, JavaScript/TypeScript, Git, SQL
- **Interests:** table tennis, jogging/running, badminton, participating in and organizing philanthropic events