

Prarthana Kandwal

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Education

MSc Advanced Software Engineering (Merit)

September 2022-September 2023

King's College London | London, UK

- **Dissertation:** Use of Machine Learning in Accelerating Drug Discovery (**Distinction**)
- **Relevant Coursework:** Software Development for Financial Systems, Software Testing, Model-Driven Development, Big Data Technologies, Security Engineering, Security Management

B.Tech, Information Technology (Distinction)

August 2017-May 2021

Indira Gandhi Delhi Technical University | Delhi, India

Experience

Software Engineer

August 2021 – August 2022

Hewlett Packard Enterprise | Bangalore, India

- Conducted comprehensive testing of **REST APIs** using **Python** scripts and Postman, resulting in **75%** decrease in manual testing efforts and ensuring consistent test coverage
- Developed and optimized mock producer code to seamlessly ingest **Kafka** data streams into **Apache Druid**, resulting in **50%** reduction in data ingestion time
- Developed and executed strategies to streamline integration of CI/CD environment, resulting in **30%** reduction in software deployment time
- Implemented a development-focused approach by conducting regular code reviews and being open to constructive feedback, leading to **15%** improvement in overall code performance.

Software Engineer Intern

January 2021 – July 2021

Hewlett Packard Enterprise | Bangalore, India

- Automated end-to-end customer-centric test cases of core product features in **Cypress**, reducing testing time by **50%** and improving overall product quality by identifying **90%** of UI issues pre-production
- Automated functional test scripts for HPE Backup and Recovery software, covering over 50 testing scenarios
- Collaborated with a cross-functional team of 15 engineers at HPE to enhance the user interface of the backup and recovery project, achieving an accomplished and seamless GUI

Mobile Application Intern

June 2020 – July 2020

ETI Labs | Delhi, India

- Developed a cross-platform mobile application prototype for the company using Flutter and Firebase
- Researched and compared various technologies suitable for app development, conducting in-depth analysis on factors such as performance, scalability, development time, and maintenance costs

Projects

Professional README Generator | JavaScript, Node.js

February 2024

- Developed a command-line application leveraging **Node.js** and **JavaScript** to dynamically generate professional README.md files for accessibility & collaboration among developers
- Implemented user input functionalities using the **Inquirer package** to gather project details, including objectives, installation instructions, and contribution guidelines

Use of Machine Learning in Accelerating Drug Discovery | Python

May 2023 - August 2023

- Employed a range of molecular descriptors and regression methodologies to construct predictive models for acetylcholinesterase inhibitors, resulting in a notable R-Squared value of 0.74
- Utilized an array of machine learning algorithms including **Support Vector Regressor**, **Random Forest**, **K-Nearest Neighbors (KNN)**, and **XGBoost**

Technical Skills

Languages: C, C++, Python, JavaScript, Dart

Technologies: HTML, CSS, Bootstrap, Node.js

DevOps: Kubernetes, Docker, AWS, Jenkins

Developer Tools: Jira, Confluence, Git, Cypress