

PROFILE

I am an ambitious Master's candidate in Scientific Computing and Predictive Modelling with a strong background in software development and machine learning. I have proven experience in designing scalable systems, developing RESTful APIs, and creating data-driven solutions using Java, Python, and cloud technologies. I am a self-motivated problem solver with a passion for addressing complex challenges and driving innovation through collaboration.

EDUCATION

- University of Warwick** Coventry, UK
Master of Science in Predictive Modelling and Scientific Computing; Expected Distinction Sep. 2020 – Jul. 2023
- University of Warwick** Coventry, UK
Bachelor of Science in Computer Science; 2:1 Honours Oct. 2023 – Oct. 2024

WORK EXPERIENCE

- Shangu Cyber Security Technology Co., Ltd** Zhengzhou, China
Data Scientist, INTERN Jul. - Aug. 2023
Managed and optimized databases on Kylin OS, performed advanced Linux server administration and implemented virtualization technologies.
 - Managed and optimized MySQL, Oracle, and Kingbase8 databases within the Kylin OS, improving performance and ensuring data integrity.
 - Implemented virtualization technologies and Linux system administration, including LVM disk expansion, new disk mounting, NFS configuration, and common Linux commands for system optimization and efficient infrastructure management.
- Saint Laurent Consulting** Remote
Business Intelligence Engineer, INTERN Oct. 2022 - Jan. 2023
Designed and implemented a scalable data pipeline and analytics dashboard for COVID-19 trends, leveraging Python, PostgreSQL, Flask, Tableau, and AWS to automate data collection, processing, and visualization.
 - Engineered an automated ETL pipeline using Python, BeautifulSoup, and Pandas for web scraping, with data efficiently stored in a PostgreSQL database, ensuring accurate and structured data management.
 - Built and deployed a real-time dashboard using Tableau and Flask, integrating data from RESTful APIs and implementing AWS infrastructure for scalable hosting and automated scheduling, reducing manual data collection by 95%.

PROJECTS

- E-commerce System Development**
Full Stack Engineer Mar. - Present
 - Developed a full-stack e-commerce system using Django and React, integrating Django REST Framework (DRF) for backend API management and React for front-end data binding and dynamic routing with ReactRouter. Configured Webpack for asset bundling, implemented multilingual support, and connected to a MySQL database for data storage.
 - Deployed the system in a production environment using UWSGI and Nginx, with automated deployment and remote execution through Ansible. Implemented unit testing, documentation with Sphinx, and continuous integration practices, ensuring robust and scalable system performance.
- Online Mentorship Management System**
Backend Software Engineer Jan. - Mar. 2022
 - Designed and implemented RESTful APIs using Java Spring Boot, Spring Data JPA, and JWT for user authentication, session scheduling, and feedback collection, securing over 90% of API endpoints and increasing user engagement by 20%.
 - Developed efficient data models and repository patterns with MySQL, Spring Data JPA, and Hibernate, reducing query response time by 30% and improving database interaction performance.
 - Collaborated in an Agile environment, applying unit testing and custom exception handling with JUnit and Spring Security, reducing bug incidents by 15% and delivering key features 2 weeks ahead of schedule.