

# Jay Patel

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## EXPERIENCE

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### Data Science and Business Analytics Intern, The Sparks Foundation

Jan 2022 - Jul 2022

- Orchestrated data cleaning for 100,000+ records daily using Python and SQL, improving data accuracy by 20%.
- Analyzed 500,000+ data points, conducting comprehensive exploratory analysis and model validation using Pandas and Scikit-learn, enhancing model accuracy by 15%.
- Streamlined data preprocessing and model refinement processes, achieving a 35% increase in efficiency and reducing project timelines by 15%.

### Backend Developer Intern, Roxon Technologies

Jan 2021 - Jul 2021

- Spearheaded database optimization, implementing CI/CD pipelines with Jenkins, elevating website search speed by 50%, resulting in a smoother user experience.
- Maintained RESTful APIs, integrating CI/CD practices, leading to a 25% increase in property listings.
- Collaborated with the front-end team using Agile methodologies, refining user experience and increasing website traffic by 20%.

## PROJECTS

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### Film

- Architected a full-stack web platform for CRUD operations on a MySQL film database; improved data handling efficiency by 35% using Java, JSP, Servlets, and JDBC.

### Quiz App

- Built a robust backend infrastructure for a quiz application with Spring Boot, Spring Web, and Data JPA, ensuring efficient CRUD operations and cutting data processing time by 30%, integrated PostgreSQL and Lombok for enhanced functionality.

### Multi-threaded Web Crawler

- Architected a scalable multi-threaded web crawler in Java, employing advanced concurrency APIs; optimized data extraction processes, boosting performance by 55% and cutting retrieval time by 50%.

### Java Servlet Web App

- Designed and implemented a web application for attendance tracking using QR codes and Java technologies; achieved a 95% decrease in errors and saved the administrative team 25 hours each month.

## EDUCATION

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**Master of Science**, Computer Science  
University of Texas at Arlington

Aug 2022 - May 2024  
GPA: 3.33 / 4.00

**Bachelor of Engineering**, Computer Engineering  
LDRP Institute of Technology Research

Jun 2018 - Apr 2022  
GPA: 8.51 / 10

## SKILLS

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**Programming Languages and Framework:** Python, Java, C++, C, Dart, Javascript, SQL, HTML, CSS, Javascript, Flutter.

**Integrated Development Environments (IDEs):** PyCharm, VSCode, Eclipse, IntelliJ, Android Studio

**Programming Tools:** Bootstrap, DevC++, TurboC++, Google Colab, Jupyter Notebook

**Version Control:** Git, GitHub

**Web Framework and API:** Django, FastAPI, RestAPI, Langchain, Google PaLM, FAISS, Spring, Spring Boot, JSP, Servlet, Microservices, Multithreading and Concurrency

**Machine Learning and Data Science:** TensorFlow, PyTorch, Sci-kit Learn

**Big Data Technologies:** Hadoop

**Containerization:** Docker

**Certificates:** Crash Course on Python - Google, What is Data Science? - IBM