

PRASHUK JAIN

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SUMMARY

- **Programming Languages**- Python, C++, Java, Swift, JavaScript
- **Databases and Operating Systems**- MongoDB, MySQL, PostgreSQL, Linux/Unix, Windows, MacOS
- **Tools & Technologies** - Docker, AWS, Azure, Jupyter Notebook, Postman, PowerBI, RESTful APIs, Jira, Git, Github/Bitbucket
- **Frameworks** - Flask, Django, Pandas, scikit-learn, nltk, numpy, TensorFlow, PyTorch, SciPy, Spark
- Familiar with Agile, SCRUM Methodologies through relevant industry experience

EMPLOYMENT

Python Developer, ThinkData Works, Toronto

Jan. 2022 - Aug. 2022

- Achieved 95% accuracy in predicting trade codes for commodities by utilizing **nltk** and **scikit-learn** libraries to create a LinearSVC ML model
- Engineered and developed **ETL pipelines** on Azure to optimize trade sanction data extraction, saving 15 hours per week
- Migrated and manipulated multiple COVID 19 dataset visualizations from **Unity to Dataprep** enhancing readability, security and accessibility
- Engineered Python ETL scripts for data extraction from various sources and facilitated ingestion into **PostgreSQL-based data warehouse**
- Wrote clean and **well-defined documentation** for the ETL scripts as well as the ML model and performed TOI

Python Developer, Arup Group, Toronto

May 2021 - Aug. 2021

- Automated **wrangling 100gb/day of data** from multiple vendors using Python by leveraging Pandas and Dask
- Containerized multiple projects using **docker** and deployed on AWS ec2 instances, improving cost by \$115/week
- Architected automatic watermarking on all exports using **PyPDF2 & OpenPyXL**, ensuring data compliance and security
- Visualized **system design architectures** for major software projects, facilitating stakeholder understanding and decision-making

Python Developer, JonaPR, Promotehour, Pune

Sept. 2020 - Dec. 2020

- Designed and developed a robust ETL pipeline in Python for autonomous author profile extraction via web scraping, leveraging **Selenium**
- Created and managed a **MySQL** database to store author profiles, enabling seamless real-time updates and advanced analytics
- Utilized **Hunter API and Diffbot** to enrich missing data fields in the database, enhancing data completeness and quality
- Deployed the ETL pipeline on AWS, **automating** the author profile extraction process, ensuring scalability, and reducing manual intervention
- Developed a B2B **CRUD API in Django** for small and medium-sized enterprises (SMEs) to optimize client interactions and experience

Python Developer, Deloitte, Kitchener

Jan. 2020 - Apr. 2020

- Integrated **Selenium** and **Aylien API** with Google Advanced Search, automating the retrieval of data from over 500 web sources
- Transformed 10,000 article links by developing a **vector-based preprocessing algorithm** and converting into Bag of Words representations
- Engineered a **NLP algorithm** that achieved 80% predictive rate in forecasting the optimal market entry point for emerging technologies
- Designed an iOS application in **Swift on Xcode** for in-depth analysis of client acquisition, utilizing **Flask and MongoDB** in the backend
- Created UI prototypes on **Blasmiq** (low Fidelity) and **Adobe Xd** (High Fidelity) to visualize app functionality and enhance user engagement

PROJECTS

Waste Buddy

Sept. 2022 - Apr. 2023

- **Computer Vision** assisted garbage sorting system that autonomously assists individuals in segregation of waste into their respective bins
- Trained and deployed a **CNN model** for processing images of waste material and determining the appropriate bin for the safe disposal
- Acted as Project Manager and ensured proper communication within the team and timely delivery of components
- Presented the idea to over 400 people in the symposium highlighting key features and marketing effective go-to-market strategies

Student Registration Form

July 2019 - Aug. 2019

- Simulated a student registration form on **Java** using **WindowBuilder** and used Java Database Connectivity to link **MySQL** backend
- Used the Swing designer component of WindowBuilder to create an **interactive GUI** which records and loads data to and from an SQL backend

EDUCATION

University of Waterloo

Sept. 2018 - May 2023

Bachelors of Applied Sciences Mechatronics Engineering 2023

Relevant Coursework - Data Structures and Algorithms, Foundational AI, Computational Intelligence, Algorithm Design & Analysis, Object Oriented Programming and Autonomous Mobile Robots