Yash Pathania Student At UCD

yashpathania704@gmail.com | +353-899796170 | Dublin | 07 Apr 1999 | Linkedin | About Me

🪪 Profile

Dedicated Software Engineer with two years of hands-on experience, complemented by a proactive freelancing background. Passionate about driving results, one line of code at a time.

💼 Professional Experience

Tata 1mg, SDE ⬈   Jul 2022 – Present | Delhi, India

- Odin - Inventory Management
  - Key contributor; set industry standards.
  - Developed dynamic pricing with ML (Xg boost, deep reinforcement learning).
- Inventory & Order Enhancement
  - Managed 1000+ batches for compliance.
  - Boosted order processing by 40% with SKU tagging.
- Procurement Reliability
  - Decoupled Odin's purchasing using SQS and Lambda; 15% reliability increase.
- Warehouse Automation
  - Pioneered automated procurement, optimizing inventory.
- Worked on cut strip module; allowing for seeling loose medicine on retail stores.
- Decoupled microservices from Legacy ROR monolity to sanic python
- Worked on Testing Suite

Tata 1mg, Software Developer Intern   Jan 2022 – Jun 2022
Worked on ROR Framerwork and YJIT Compiler. Recived an A+ for industry internship.

Sketch Bytes, Software Developer Internship   Apr 2020 – Apr 2021 | Port Blair

- Module Development & Enhancement
  - Successfully debugged and engineered two pivotal modules, elevating system performance.
- Significant Healthcare Impact
  - Directly influenced care at 7 hospitals, positively impacting over 7,000 COVID patients.
- Network Fabrication & Integration
  - Crafted robust inter-hospital networks using Django and Python, ensuring efficient communication and data exchange.

Olive Green Immigration, Web Developer Freelancing ⬈   Jun 2020 – Aug 2020
- Established a front end for the company.
- Created a data entry system as required by the client.
- Set up automatic emails and custom email servers.
- Designed various email headers and designs using HTML& CSS.

Saansha Artworks, Co-Founder/Technical Head/Sales head   Nov 2020 – Jun 2021 | Delhi
- Co-founded a startup focusing on selling stationery online.
- Made it to Amazon Best Seller Planner for 2021.
- Lead the logistics and technical department.
- Built native payment portals for the prototype phase.

🎓 Education

University College Dublin,   Sep 2024 – present | Dublin, Ireland
Msc Computer Science Artifical Intelligence
Msc in Computer Science Negotieated Learning With an Emphasis On Artifical Intelligence and data science

Thapar Institute of Technology,   2018 – 2022 | Patiala
BE Computer Science with Minors in Data Science
Computer Science, B.E. 4th year CGPA: 8.10

🧠 Skills

Python — Sanic,Django | **Web Dev** — React | **C++** | **Machine Learning** | **Postgres** | **Ruby On Rails** |
Kubernetes | **AWS** — SQS, Kafka, EC2, S2 | **Bitbucket** — CI-CD Pipelines | **Redis** | **MongoDb** | **Rspec** |
Docker | **Podman** | **PyTorch** | **Tensorflow**

📁 Projects

Detecting Emotions of Tweets Using Machine Learning and Deep Learning Technique, Research Paper ⌝
Analyzed the SemEval Data Set for vernaculars and emoticons.
Explored BERT and convolutional neural networks for advanced text analysis.
Published findings in the Tech Science Journal, setting new benchmarks for model comparison.

Simple Stock, Machine learning
Developed a machine learning model for stock price forecasting.
Integrated LSTM with sentiment analysis for enhanced accuracy.
Utilized BERT for NLP, analyzing sentiments from news and forums.
Achieved a 4.5-6% accuracy improvement for traditional stock predictions.

Tech Stack Upgrade
Directed a comprehensive tech stack overhaul at Tata 1mg, spearheading the upgrade of Ruby from 2.6 to 3.2
(YJIT) and Rails from version 5 to 7. This initiative also encompassed the migration of PostgreSQL databases to
Graviton instances on AWS.

Testing Suite
Developed foundational quotes and unit testing strategies for ODIN, a legacy Ruby on Rails application,
utilizing RSpec and Should Matchers. Successfully increased code coverage to 80% for a codebase exceeding
35,000 lines.

Auto Purchasing For Warehouses
Designed an automated procurement system for location-specific pharmaceutical demands.
Integrated Prophet by Meta with proprietary forecasting algorithms.
Streamlined procurement, optimizing inventory levels, and reducing stock shortages.

Hawkeye, AI-Powered Surveillance for Retail Optimization ⌝
Hawkeye is an ongoing SaaS project currently in development, focused on building modular solutions for
various brick-and-mortar establishments. Leveraging YOLOv7 for real-time object detection, Hawkeye aims to
provide actionable insights for industries such as retail, healthcare, and other physical institutions through
advanced video analytics.

🎗️ Certificates

Infosys Certified Software Programmer: ⌝ Certification Around basic Principles in Software Development

5 Star Problem Solving Hackerank

Top 100 in codechef smackdown

AI Certifcation from University Of Helsinki ⌝

🎸 Hobbies

Basketball, **Debating**, **Certified Scuba Instructor**, **Cooking** ⌝ — Have been on a reality tv show for cooking

🏠 Organizations

Aisec, Business Executive   Jan 2020 – Jul 2021 | Patiala

Frosh, Head Coordinator   Thapar Patiala
Thapar's annual fresher's event.