Ronak Pathak

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Objective: To secure an internship in the IT industry where I can apply my technical and analytical skills to solve complex problems and gain valuable experience.

Profile Summary: As a Computer Science 3rd year student, I have developed excellent interpersonal skills by working at my university's lab. I have a proven academic track record as can been seen in my Leaving Cert and my 1st and 2nd year Computer Science results.

Education

Technological University Dublin, Dublin, Ireland   09/2022 – Current

Bachelor of Computer Science, expected June 2026

1st Year Modules

Programming (96%) · Communications for Comp Tech (87%) · Information Tech. Fundamentals (70%) · Mathematics 1 (97%) · Program Design (96%) · Web Development 1 (85%) · Algorithm & Design & Problem (90%) · Computer Architecture and Techno (82%) · Microprocessor Systems (86%) · Operating Systems 1 (85%) · Data Exploration (77%)

2nd Year Modules

Object Oriented Programming (86%) · Databases 1 (89%) · Mathematics 2 (98%) · Operating Systems 2 (88%) · Software Engineering 1 (81%) · Web Development 2 (77%) · Algorithms & Data Structures (84%) · Data Communications (92%) · Human Computer Interaction (80%) · Legal & Professional Issues (85%) · Software Engineering 2 (82%)

Lucan Community College, Dublin, Ireland   09/2016 – 07/2022

Leaving Certificate - CAO points: 601

Computer Skills

Programming Languages: C, Kotlin, Python, Java, JavaScript, Php, GDscript and ARM Assembly

Technical: HTML5, CSS, SQL, XML, JSON, Git and GitHub, Apache Webserver, and Firebase, UI design

Database: MySQL, PostgreSQL

General Software: Visual Studio Code, Microsoft Word, Excel, PowerPoint, Office, WordPress, GoHighLevel, Shopify and Godot

Experience

Head of Technical Department, Upload Digital – Dublin   March 2023 **–** Present

I was responsible for all technical operations including client web designs and development and optimization's strategies. This included the implementation of API's and automation service's within the company ecosystem and also for the companies clients.

I designed and updated modern, interactive, and informative websites for four different companies:

- Bizo Expert Company (https://bizoexpertcompany.ie/)
- Dublin Details (https://dublindetails.ie/)
- Uplead Digital (https://upleaddigital.com/)
- The Leaving Cert Hub (https://theleavingcerthub.com/)

These websites were built using a combination of WordPress, GoHighLevel, Shopify, HTML5, CSS, JavaScript, and the WhatsApp API.

Office Assistant Intern, Permanent TSB – Dublin   11/2019 – 11/2019

I had an administrative role. I archived letters sent to clients regarding expiring accounts. I created a digital archive of these, and I observed GDPR rules. I also archived the paper-based letters. I worked from 9am to 4pm. I gained organizational skills and communication skills. I learned how to scan pages into a computer and store them.

Restaurant Waiter, Bumbai Creative Indian Restaurant– Leixlip, Co. Leitrim   02/2020 – 03/2020

I took part in multiple roles over the two weeks. I worked from 5pm to 11pm every day. One of my roles was a cleaner and I cleaned dishes, cutlery, the bathrooms and the kitchen. I washed the dishes and cutlery and put them in a dishwasher. I cleaned the kitchen and bathrooms at the end of the days by using a mop and a hoover. Another one of my roles was a waiter.

Some of the tasks I did included setting and cleaning the tables, taking orders from customers and giving them their meal. I also packed the food in bags for collections and deliveries. I was also a receptionist, and I took phone calls for orders, and I took online orders from a special machine and brought it to the chefs in the kitchen. I gained communication skills, organizational skills, technological skills, and teamwork skills during these two weeks of work experience.

Project name: Pixipalz (Dekstop Pet App) - Self-development - https://github.com/IronRon/PixiPalz

Technologies Stack: Electron, HTML, CSS, JavaScript, Node.js, IndexedDB.

Features:

- Carousel Navigation: Users select characters through a carousel interface.
- Interactive Pixipals: Launch frameless, transparent Pixipal windows that run or idle based on mouse movement.
- Auto-Resizing Windows: Windows resize dynamically based on Pixipal image data.
- Context Menu: Right-click to interact, run, or close the Pixipal.
- Mouse Tracking: Pixipals follow the mouse and change direction accordingly.
- Database: Manages character data with IndexedDB.
- IPC Communication: Uses ipcRenderer and ipcMain for frontend-backend interaction.

Project name: Stock Price Prediction and Analysis Tool Discord Bot - Self-development - https://github.com/IronRon/Stock-Price-Predictor

Technologies Stack: Python, yFinance, scikit-learn, Pandas, Matplotlib, argparse.

Features:

- Collected historical stock data using yFinance API for analysis and prediction.
- Implemented a linear regression model to predict the next day's closing price.
- Integrated model evaluation with MSE and R^2 metrics.
- Added functionality to compare predicted and actual prices with percentage differences.
- Maintained a CSV log of predictions with file size management.
- Provided CLI options for model evaluation and log management.

Project name: Video Vector Visualisation - Self-development - https://github.com/IronRon/Video-Vector-Visualisation

Technologies Stack: Python, OpenCV, Mediapipe, Matplotlib, NumPy.

Features:

- Captures live video to detect and track hand movements using Mediapipe.
- Computes and displays hand position, velocity, and acceleration over time.
- Visualizes metrics in real-time with animated plots and quiver diagrams for movement analysis.
- Tracks and shows the hand's center on-screen with real-time updates.
- Performs real-time hand landmark detection and drawing for better visualization.