



COMPUTER SCIENCE & BUSINESS STUDENT

ANISH ACHAR

TRINITY COLLEGE DUBLIN

CONTACT

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EDUCATION

COMPUTER SCIENCE & BUSINESS

Trinity College Dublin
Sep 2026 – Present | Year 1

LEAVING CERTIFICATE

The Institute of Education

Dublin | 2026
Incl. Design & Communication Graphics

SKILLS

- SolidWorks (CAD)
- Part & assembly modelling
- Technical drawing (DCG)
- Mechanical diagnostics
- Drivetrain & brake servicing
- Python (fluent)
- Pine Script (TradingView)
- JavaScript (basic)
- Backtesting & optimisation
- Figma & UI prototyping
- Agile / Scrum & QA testing

COURSES

- CS50's Introduction to Programming with Python
Harvard University
- Discoveries and Inventions (Robotics)
CTY Ireland

LANGUAGES

- English | Fluent
- Kannada | Fluent
- Hindi | Fluent

OBJECTIVE

First-year Computer Science & Business student with a strong interest in both software and hardware. On the software side: **data and the patterns within it**, from Python scripting to optimising a trading strategy over 10,000 backtests. On the hardware side: **seeing ideas come to life**, from concept sketches to parametric SolidWorks assemblies and hands-on builds.

PROJECTS

V8 ENGINE – FULL CAD ASSEMBLY-----SolidWorks · Personal project

- Modelled a **complete V8 engine in SolidWorks**, designing each component (block, cylinder heads, crankshaft, pistons, conrods) and mating them into a full assembly.
- Deepened my grasp of the four-stroke cycle, slider-crank mechanism and V8 layout.

PRODUCT DESIGN – CAD PROTOTYPES-----SolidWorks · Personal & Leaving Cert

- **E-bike converter**: designed a **prototype conversion kit** that turns a standard bicycle into an e-bike, including motor and battery mounting on an existing frame.
- **Soap dispenser**: took a contemporary design from concept sketches to a **detailed 3D model and technical drawings** for my Leaving Cert DCG project.

ALGORITHMIC TRADING STRATEGY-----TradingView · Pine Script

- Wrote a rule-based trading strategy in **Pine Script** on TradingView, using AI-assisted development to iterate on the logic quickly.
- Ran **10,000 back test simulations** over a year of market data to optimise parameters, producing a model that **outperforms the S&P 500** given adequate equity and leverage.

STUDY CONTENT CREATOR-----TikTok (@lil_indian_boi) · SimpleStudy.

- Documented my Leaving Cert preparation on TikTok, reaching **thousands of students** and motivating them to achieve their academic goals.
- Became a **brand ambassador for SimpleStudy**, promoting its resources to students.

EXPERIENCE

CO-FOUNDER

Resonance. Dublin | Sep 2026 – Present

- Co-founded a web start-up with a friend that **modernises outdated websites** for small businesses, redesigning them for usability and a modern look.
- Building **custom timetabling software** for our first client, **VS Driving School**, to schedule and manage driving lessons (work in progress).

COMPUTER LITERACY VOLUNTEER

Community volunteering. India | Dec 2025

- Taught children **core computer skills** and safe, practical use of technology, adapting explanations to different ages and learning levels.

VOLUNTEER BICYCLE MECHANIC

The Bike Hub. Dún Laoghaire, Dublin | Jun 2025

- Built and repaired **around ten bikes** from scratch under an experienced mechanic, fixing drivetrain and brake faults; all were donated to people in need via the local council.
- **Favourite project**: a **full drivetrain replacement** on a badly corroded bike, from the derailleurs and chain through to the cranks and pedals.

ENGINEERING & TECHNOLOGY WORK EXPERIENCE

Tata Consultancy Services | Feb 2024 – Mar 2024

- In a small team, tackled an open-ended engineering challenge to reimagine food delivery and proposed a drone-based system; I designed the **app prototype and user journey in Figma**.

TECHNOLOGY WORK EXPERIENCE

Test Triangle. Blanchardstown, Dublin | Nov 2023

- Shadowed a software tester in an Agile / Scrum team, running functional and usability tests on new websites in sprint cycles; **some of my proposed improvements were implemented**.