# UTSAV TIWARY

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## EDUCATION

### IMPERIAL COLLEGE LONDON
**BEng (Hons) in Computer Science**
September 2013 – June 2016
Grades Achieved: 1st Class Honours

### INSTITUTE OF EDUCATION, DUBLIN
**Irish Leaving Certificate**
September 2011 – June 2013
615 / 625 Points Achieved – 5 A1s, 2 A2s, 1 B2

## CERTIFICATIONS

### INSTITUTE AND FACULTY OF ACTUARIES - UK
**Fellowship of the Institute and Faculty of Actuaries**
October 2019

### STANFORD UNIVERSITY ON COURSERA
**Certification in Machine Learning**
October 2019

## ACHIEVEMENTS

### UKIBS SALES & TRADING COMPETITION
**Best Hedge Fund Trader**
November 2015

### IRISH EU SCIENCE OLYMPIAD
**National Gold Medallist - Biology**
January 2012

### IRISH MATHS OLYMPIAD
**National Finalist**
April 2012

## TECHNICAL SKILLS

### PROGRAMMING
- Web and Cross-Platform App Development
- Software Engineering – Object Oriented Design, Test Driven Development, Algorithms & Data Structures
- Machine Learning – Working Knowledge
- Languages
  - Proficient in Python, Java, Javascript, SQL, VBA
  - Familiar with C++, Matlab, R, C, C#

### BUSINESS & STATISTICS
- In Depth Knowledge of the Insurance Industry
- Experienced in Stochastic Modelling and Statistics
- Familiar with Financial Reporting and Accounts
- Proficient with Microsoft Office Suite

## SOFT SKILLS

- Multi-lingual
  - Fluent in English and Hindi
  - Basic knowledge of German and French
- People and Stakeholder Management
- Effective Communicator
- Leadership
- Public Speaking

## INTERESTS & HOBBIES

Entrepreneurship, Traveling, Reading, Social Change, History, Politics, Music (Singing), Fitness, Videography

## EXPERIENCE

### SOCRATES – MEDICAL EDUCATION | socratesmed.co.uk
**Co-founder | Chief Technology Officer**
February 2018 – December 2019
- Led the technical development of an AI driven education tool for medical students and professionals
- Pitched alongside the CEO at conferences and competitions – raised £11k of equity free funding
- Managed a team of 4 developers and designers supervising the product's implementation across the full technology stack

### AON
**Reinsurance Pricing Actuary**
July 2018 – Present
- Lead the analytics for several large (re)insurance clients providing insights into all aspects of their business, mainly reinsurance efficacy
- Responsible for the continuous development of internal tools to improve efficiency and depth of analysis provided to clients
- Organise the Actuarial internship program for my team and manage the incoming interns

### LIBERTY SPECIALTY MARKETS
**Commercial Pricing Actuarial Analyst**
September 2016 – June 2018
- Pioneered the development and calibration of rating tools for Financial and Professional insurance classes using programming languages such as VBA, Python and SQL
- Was the main point of contact for the Cyber insurance line of business and bore the responsibility for the bi-annual claim reserving process as well as the business planning for the class
- Interacted regularly with several key stakeholders such as underwriters and claims team to provide bespoke analytical solutions

### ZÜHLKE ENGINEERING
**Distributed Systems Integration Intern**
July 2015 – September 2015
- Explored upcoming trends in technology through research projects on topics such as Internet of Things, augmented reality and big data
- Liaised with interns on the front-end and hardware teams to produce back-end APIs that seamlessly captured and processed the data
- Acquired product management experience by leading the sprint planning sessions and the daily stand-ups

## TECHNICAL PROJECTS

### TETRIS DUEL | https://github.com/Tetris-Duel-Team/Tetris-Duel
**Best Overall Project – ICL Computing Year 1**
April 2014 – June 2014
- As an extension to a group project, my team and I implemented a multiplayer Tetris game in bare metal assembly on the Raspberry Pi
- This earned us an award for the best overall group project of the year at Imperial as well as attention from several technical blogs
- Learning Points: OS Design, Data Structures, ARM Assembly

### SURV – THE ULTIMATE TOOL FOR UNIVERSITY STUDENTS
**Web Application – ICL Computing Year 2 Group Project**
April 2015 – June 2015
- Developed the front-end for a web application that caters to all the academic and professional needs of university students
- Formulated solutions to several design challenges arising from desired functionality by utilising effective software engineering principles
- Learning Points: MVC Design, Web Development, MEAN Stack, Scheduling Algorithms