

Niall Kehoe

Computer Science Major, Statistics Minor

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Projects and Experience

- **OnCourse.college**: class-scheduling web application for Stanford students
 - Built with a React and Tailwind CSS frontend and a Firebase backend.
 - Using local caching and optimized search, over 5x faster than all available alternatives.
- **My Best Mate**: horse racing database that stores 40 years of horse races in Ireland (96,000 horses).
 - Made native apps for iOS and Android & webpage with a NodeJS backend and Stripe notifications.
- **YouTube Video Analyzer**: bot which scrapes gift card codes from "Try not to Laugh" YouTube videos.
 - Wrote NodeJS and python scripts to download YouTube videos and process extract gift codes using Google Vision.
- **FinPredict**: A data science project which analyzed historical stock price data and made predictions.
 - Collected and cleaned financial data from public sources.
 - Created ML models that predicted future stock/index movements and produced positive returns.
- **Benford's Law Financial Fraud Detector**: A system to analyse financial results to detect fraud.
 - Scraped and processed financial data. Generated Benford Distributions to score their likelihood.
- **Woolly Mammoth Tech**, *Founder/CEO*
 - Published my first iOS app aged 10. My company currently has 8 apps on the iOS App Store and 3 on the Google Play Store (90,000+ downloads).
 - Partnered with Apple and Salesforce on projects and done contracting work for many more.
- **Stanford HCI**, *Research Assistant* – Designed and implemented advanced data acquisition and Artificial Intelligence processing systems to derive insights pertaining to environmental and individual aspects.
- **Stanford University**, *CS106 Section Leader* – TA for Stanford CS courses since my freshman year.
- **Varoom Ltd**, *Software Engineering Intern* – Developed iOS, Android, and web applications for clients.
- **Innovate Ltd**, *Cloud Engineering Intern* – Assisted in the maintenance of client's cloud systems.
- **Digital Youth Council of Ireland**, *Board Member (2016-2022)* - Advised policymakers on legislation.
- **Susquehanna International Group**, *SIG Discovery Day Participant (2023)*

Education

- **School**: Stanford University sophomore. GPA: 3.97.
- **Standardized Scores**: SAT (1550), SAT Subject Tests Math Level 2 (800) and Physics (800)
- **Irish Leaving Cert**: (625 – perfect score). 100% in Chemistry, Computer Science, Math, and Physics.

Skills

Programming Languages: C++, Swift, Python, C, Java, Objective C, HTML, CSS, JavaScript, C#, Php, R, XML

Technologies: AWS, Stripe, In-App Purchases, Google Admob, Google Cloud Platform, Firebase, Heroku

Interests: Artificial Intelligence, Machine Learning, Finance, Sports

Awards

- **WWDC Scholarship / Swift Student Challenge Winner (Apple Inc.)**: Won Apple's scholarship in 2017, 2018, 2020, and 2021 to attend their annual developer conference in California where I met with Tim Cook and developed alongside Apple engineers.
- **6th Place in the Chemistry Olympiad of Ireland 2022 (IChO)**: Placed 6th, narrowly missing out on a chance to represent Ireland in the International Chemistry Olympiad (IChO).
- **Enterprise Ireland NPA Best Pitch Award 2019**: Youngest ever winner of the Best Pitch Award in the Innovation Arena at the National Ploughing Match, presented by the Irish prime minister, Micheál Martin.
- **Local Enterprise Office Wexford Senior Runner Up**: Led a group of 4 people to build a company, achieving 2nd place in my state's LEO competition.
- **Stanford DATASCI112 Kaggle Competition Winner**: Won both DATASCI112 Kaggle competitions with ML models with a RMSE 20% lower than my nearest competition.