Matthew Ng

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PROJECTS

Rugby Dashboard
- A web app displaying rugby matches, players, statistics and performance scores. Data processed from OvalInsights CSVs in R-Studio using PCA, ANOVA and randomForest models. Dashboard build on React, Python, Flask, and PostgreSql.

Personal Expense Tracker
- Developed an expense tracking app utilizing React, JavaScript, Nodejs, Expressjs, and MongoDB. Users create accounts, add expenses and track expenses by day, month and year.

WordQuake
- Created a Boggle-inspired game where users search for words on a 5x5 letter board and earn points for words found. Built using React, JavaScript, Nodejs and Expressjs.

SteamNews
- Users create accounts, search for news related to games on Steam and save games to their dashboards. Built using React, JavaScript, Nodejs, Expressjs, and PostgreSql.

PROFESSIONAL EXPERIENCE

Springboard Software Engineering Bootcamp   **Remote**
Software Engineering Fellow   *June 2022 – July 2023*
- Complete a full-stack web development course with React, Python, JavaScript, Flask, SQL, Node, Express and Redux.
- Projects: SteamNews (React, JavaScript, Node, Express, PostgreSql), WordQuake (React, JavaScript, Node, Express), Expense Tracker (React, JavaScript, Node, Express, MongoDB)

Durham University   **Durham, UK**
Data Science Research Project Lead   *Jan 2023 – Sep 2023*
- Dissertation: An exploration into developing individual positional performance scores in professional male rugby union
- Collaborated with the Newcastle Falcons Professional Rugby Club generate individual player scores based on position and match statistics.
- Developed a player efficacy rating system and applied advanced data analytics using PCA, ANOVA and randomForest models to quantify individual player performance in rugby union.

KIPP NYC Charter Schools   **New York, NY**
Founding Lead Classroom Teacher & Grade Team Leader   *July 2020 – June 2022*
- Promoted to Grade Team Leader within one year. Led a team of classroom teachers with 0-12 years of experience to a 100% graduation rate for the founding class of Freedom Middle School.
- Co-drove the development of history curriculum that was implemented across 9 total network middle schools.
- Drove meetings as a technology ambassador; led to an increase in teacher implementation of classroom technology.

Success Academy Charter Schools   **New York, NY**
Founding Lead Classroom Teacher & Instructional Coach   *July 2017 – June 2020*
- Promoted to Lead Teacher within 3 months and co-drove teams of classroom teachers with 0-5 years of experience.
- Instituted and adapted high school curriculum. Resulted in the 2020 Grade 8 student cohort earning a 95%> pass rate on the Grade 11 New York State U.S. History & Government Regent Exam
- Direct instructional coach of a Robertson Leadership Fellow of a non-educational background. Fellow earned promoted to lead classroom teacher within one year and assistance principal within three years.

EDUCATION

Durham University   **Durham, UK**
Master of Data Science with Distinction (equivalent 4.0 GPA)   *Sep 2022 – Sep 2023*
Durham University   **Durham, UK**
Master of Education   *Sep 2015 – Sep 2016*
CUNY Hunter College   **New York, NY**
Bachelor of Arts: English Literature   *Aug 2012 – Dec 2014*

TECHNICAL SKILLS

React, JavaScript. Python, HTML, CSS, Nodejs, Expressjs, Flask, MongoDB, MySql, PostgreSql, Nextjs, Tailwind, R, Redux, Redux Toolkit