

# Kevin Vasquez

14438 Kingston Cove Lane, Houston TX, 77077

kevin.a.vasquez99@gmail.com • +44 73 98351853 • linkedin.com/in/kevinavasquez/ • github.com/KVasq

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## EDUCATION

**King's College London — Department of Engineering, London, UK**

*B.Eng (Hons) of Computer Engineering*

*Sept. 2017 – Present*

Predicted 2:1 Honours - Expected Graduation Date: Summer 2021

**Dhahran High School, Dhahran, Saudi Arabia**

*American Honors Diploma w/ 6 Advanced Placement Credits*

*Sept. 2013 – May. 2017*

AP: Physics 1 & 2, Calculus AB, Comp Science, Biology, English; SAT: 1450/1650

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## DATA SKILLS

**Technical Skills:** Python, SQL, and R. Experience in Machine Learning, Data Analysis, Technical Writing, Web-Dev

**Relevant Courses:** Machine Learning, AI Planning, Computer Vision, Internet Systems, Data Analysis with R

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## WORK EXPERIENCE

**SiriusInsight.AI, London, UK**

**Data Analyst & Engineer Internship (Unix, React.JS, D3.js, PostgreSQL)**

*Mar. 2019 – Oct. 2019*

- Constructed **end-to-end data pipeline** for marine traffic, from hardware prototype to web-app front-end with data team; led directly by primary stakeholders
- Built an identification system using **PostgreSQL** to query ship activity logs from internal/external sources
- Created **real-time data analysis tools** which displayed ship heading and activity along with product performance to clients through React.JS dashboard

**Ignite Hubs Code Academy, London, UK**

**Coding Youth Instructor (Python, HTML/Javascript, Scratch) (Part-Time)**

*Sept. 2019 – Sept. 2020*

- Taught as programming instructor for children in low-income communities, guided STEM-related activities
- Designed lessons for different languages that progressively introduce new tools to express their creativity

**King's College London, London, UK**

**Student Ambassador (Part-Time)**

*Oct. 2018 – Present*

- Handle the **management and team coordination** of prestigious and regular events through conference set-up and guest accommodation
  - Serve in various public relation roles, from campus guide to public speaker for prospective students
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## DATA SCIENCE PROJECTS

**Meta-Learning for General Election State Poll Prediction: Python (TensorFlow/Keras, pandas)**

*Final Year Independent Project — Project Supervisor: Prof. Osvaldo Simeone*

- Used state-of-the-art deep learning techniques such as **meta-learning and Seq2Seq-RNN architecture** to find social correlations between states and create enhanced predictions of upcoming polling averages.
- Achieved **36% improvement in long-term accuracy** versus other regression-based forecasting methods
- Gained experience cleaning polling, economic, and demographic data from political survey/census data

**Machine Learning Trading Bot: Python (sagemaker, pandas, scikit-learn, simfin), PostgreSQL**

*Group Freelance Project*

- Used web-scraped NYSE public financial documents and data via API, built a model which analyzed **time-series financial ratios** to do stock price projection through **clustering** and **neural network** classification
- Gained experience with **AWS Sagemaker, S3, and RDS PostgreSQL** to understand cloud-hosting and scaling

**Q-Pacman Agent: Python (numpy)**

*Machine Learning & Pattern Recognition Course Final Project*

- Implemented a **Q-learning reinforcement algorithm** controller which determines optimal Pacman movements in any grid-based level according to game state (score, enemy location, level architecture, etc.)
  - Agent succeeded every attempt of test levels after given training period (2000/10 training/assessment episodes per level)
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**Interests:** Music Production, Politics, Rock Climbing, Social Impact, STEM Youth Education, Strategy Games, Swimming