

**Alec J. Capasso**  
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## **Education**

### **University of London**

*B.S. Computer Science, Machine Learning & Artificial Intelligence*

- **GPA: 4.0**
- Relevant Coursework: Machine Learning & Neural Networks, Natural Language Processing, Intelligent Signal Processing, Databases & Advanced Data Techniques, Software Design & Development, Graphics Programming, Programming with Data, Agile Software Projects., Computer Security, Algorithms & Data Structures I & II, Databases Networks & Web Applications, Computational Mathematics, Discrete Mathematics, Object-Oriented Programming

### **University of North Texas**

- **GPA: 3.5**

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## **Experience**

**GKB LLC, Keyport, New Jersey - July 2020 – Present**

*Professional Hardscape Construction & Machine Operator*

- Worked within team certified in ICPI installation, SRM installation(*National Concrete Masonry Association*). Cambridge, Nicolock, Alan Block certified contractor for paver-stone installation.
- Machine Operator: Bobcat MT85 Track Loader & CAT D3 Skid-Steer Loader
- Construction Skills: Brick paver walkways, patios, raised patios, stairs & driveways

**Stonebriar Country Club - Frisco, Texas – 2015 – 2017**

*Member Services - A Club Corp premier country club*

- Responsible for ensuring superior client experience by delivering professional customer service
- Received the national “Service of the Year” award in recognition of our team’s performance

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## **Notable Projects**

### **Untertitle**

The application automatically translates the audio of the user-uploaded video into the user-selected target language(up to 160 Language Options). The project aimed to provide a building block for translating audio to empower educators and students to make knowledge and information more accessible to global audiences.

**Module-based architecture:** Docker for module-based container creation & configuration, GUI module written in JavaScript as a Node app utilizing ReactJS framework, API layer using Express.js framework, database module MariaDB, a core module written in python utilizing various libraries for handling videos, audio extraction, and translation.

### **Machine Learning Prediction Model**

The project explores the UCI Wine dataset. The project contains k-Nearest Neighbor classification implementation & Nested Cross-validation written in python from scratch. The kNN prediction methodology model predicted 94.44% accuracy.

### **News Classifier**

The news classifier creates a high-accuracy prediction of real or fake news. The natural language processing project is written in python and implements tokenization, advanced text preprocessing, a bag of words model, count vectors, and Multinomial Naive Bayes text classification.

### **Textbook Exchange**

Peer-to-peer textbook iOS, android and web application for college students; the applications allowed students to buy, sell, & exchange textbooks with fellow students to alleviate the financial burden of purchasing new books.

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## **Skills**

**Languages/technologies:** JavaScript, Python, C++, NodeJS, HTML, CSS, Numpy, Tensorflow, Jupyter Notebooks.

Experienced in system architecture, machine learning models, data science, data engineering, database design, Unix/Linux, Git, LAMP, Google Cloud, UI/UX, security, research & design

**Google Cloud Certifications:** [Advanced Machine Learning Google Cloud](#), [Machine Learning with Tensor Flow Google Cloud](#), Google Kubernetes Engine, Google Cloud: Infrastructure, Data Science on Google Cloud: Machine Learning, Scientific Data Processing, Data Engineering

**Organizations:** Alpha Lamda Delta(*Honor Society of Academic Excellence*) & Delta Sigma Phi (*Served as Academic Chair Spring Semester 2016*)

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## **Honors & Awards**

- **Academic Scholar** – Awarded scholarship for highest GPA in Delta Sigma Phi. *Scholarship awarded: Fall Semester 2015, Spring Semester 2016*