

# John Doe

Senior Bioengineering student,  
specialized in Machine Learning and Artificial Intelligence

## EDUCATION

• <b>Bioengineering - Senior year (85%)</b>	<i>2020-ongoing</i>
<i>University</i>	CGPA: 3.46/4.00
• <b>Friends of Fulbright Exchange program</b>	<i>Spring 2024</i>
<i>An American University</i>	Completed

## EXPERIENCE

• <b>Applied AI Engineering Internship</b>	<i>Dec 2024 - Present day</i>
– Helped develop AI powered automations for optimising customer support related processes	
– Provided tailored support for our clients, with a customer-facing approach	
– Skills involved: Typescript, git, GitHub, API management, unit testing, prompt engineering, sprint planning	
• <b>Vice president at the IEEE EMBS Student Chapter</b>	<i>Aug 2022 - July 2024</i>
– Vice President for the IEEE Engineering in Medicine and Biology Society student chapter at University	
– Collaborated with international student chapters, as well as multinational health and biotech companies	
– Skills involved: team leading, event planning	
• <b>Teaching assistant</b>	<i>Aug 2021 - Present day</i>
– Assisted in teaching classes in Introduction to Informatics and Data Structures and Algorithms, designed and graded assignments and exams	
– Became proficient in Python programming, source control, and public speaking	

## PERSONAL PROJECTS

• <b>Interactive mechanical ventilation simulator</b>
<i>Awarded a special mention at a physiology conference 2023</i>
– Models lung response under a wide range of stimuli and experimental conditions
– Runs on a self-implemented Runge-Kutta 4 based differential equation solver engine
– Technologies: Python, NumPy, TKinter
• <b>Real-time seizure detection</b>
<i>A machine learning model to detect seizure events in real time based on EEG analysis</i>
– Uses support vector machine to classify short multichannel signal segments
– Performs spatial, statistical, and Fourier analysis
– Technologies: Python, NumPy, Scikit-learn, SciPy
• <b>Semi-automatic nuchal translucency measurement</b>
<i>An objective, user independent algorithm to measure nuchal translucency in ultrasound fetal scan</i>
– Deep learning based image segmentation, combined with generalized linear regression models
– Technologies: Python, NumPy, OpenCV, SITK, Keras

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Spanish (native), English (proficient), French (intermediate)  
**Programming Languages:** C, Python, MATLAB, Arduino, Typescript  
**Libraries:** Numpy, Matplotlib, Jupyter, Scipy, Pandas, sklearn, OpenCV, PyTorch  
**Tools:** VS Code, Git, GitHub, Linux, Trello, MS Office, Siemens NX, SolidWorks, mySql, L<sup>A</sup>T<sub>E</sub>X  
**Fields of Interest:** ML, AI, Deep Learning, Computational Modeling, Signal Processing, Computer Vision  
**Soft Skills:** Autodidact, Adaptability, Agile methodology, Scrum framework

## CERTIFICATIONS

• <b>MITx Machine Learning with Python: From Linear Models to Deep Learning</b>	<i>2024</i>
• <b>MITx Introduction to Computer Science and Programming Using Python</b>	<i>2022</i>
• <b>Cambridge Certificate of Proficiency in English (CPE)</b>	<i>2019</i>
• <b>International Baccalaureate (IB)</b>	<i>2019</i>
• <b>High School Head Pupil and Valedictorian</b>	<i>2019</i>