

# BENETOS NIKOLAOS

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🐙 [github.com/nikolasb10](https://github.com/nikolasb10)

## Education

**Electrical and Computer Engineering, NTUA (GPA: 8.3)**

*Undergraduate with focus area Machine Learning, Software and Hardware, Robotics and CV*

**Sep. 2019 –**

*Athens, Greece*

**Homo Educandus**

**2017 – 2019**

**High School of Agioi Theodoroi**

**2016 – 2017**

**Burnaby North Secondary School**

**2014 – 2016, Vancouver**

**Parkcrest Elementary School**

**Jan. 2014 – June 2014, Vancouver**

**Kitchener Elementary School**

**Sept. 2013 – Dec. 2014, Vancouver**

## Relevant Coursework

- Computer Vision
- Artificial Intelligence
- Machine Learning
- Robotics
- Software Development
- Deep Learning
- Data Structures
- Computer Architecture

## Experience

**Machine Learning - Software Engineering Intern**

**March 2024 – August 2024**

*Tesla, Inc.*

*Athens, Greece*

**Distributing Newspapers**

**March 2015 – June 2016**

*BurnabyNow*

*Vancouver, Canada*

## Projects

**Diploma Thesis on Computer Vision and Child-Robot Interaction | Python**

**November 2023 - October 2024**

A study with goal to improve the already existing architectures on the engagement estimation and gaze detection of children interactions, with ultimate goal to be able to use them for the autism prediction of children from a young age, during their interaction with robots. Under the supervision of Petros Maragos in CVSP Lab NTUA.

**Machine Learning Demos Website | Python (Streamlit)**

**September 2024 - October 2024**

Development of a Machine Learning Website, where different small artificial intelligence projects have been integrated with interactive demos and visualizations. Can be viewed on: [machine-learning-website.streamlit.app](https://machine-learning-website.streamlit.app)

**ViTs and Data Augmentation Techniques | Python**

**October 2023 - February 2024**

A study with goal to investigate the performance of Vision Transformers on small datasets and how it can be improved using various data augmentation techniques, specifically focusing on classification problems in the area of Medical Computer Vision. AILS Lab NTUA.

**MyCharts | React, Typescript, CSS**

**Spring - Summer 2023**

Development of a software app, using microservices, for creating and displaying charts from the Highcharts library. The users can log in with their Google account, purchase credits, download csv description templates for all the available charts and upload them with their own parameters in order to create their charts. Finally, they can view their charts and download them in pdf, png, svg and html format.

**IntelliQ, "intelligent" questionnaires | React, Python, CSS, SQL**

**Winter 2022-2023**

Development of a software app, named intelliQ, for configuration and answering of "intelligent" questionnaires, where the next question changes depending on the answer given on the previous one. It provides the capability for user authentication, where the user with admin role can create questionnaires, view the answers given to them and some statistics about those answers.

## Skills

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**Languages:** Python, Java, C, C++, HTML/CSS, Node + React JavaScript, SQL, Streamlit, Flutter, Ros, Prolog, SmlNj  
**Technologies/Frameworks:** Linux, GitHub, Gazebo, Android Studio, Docker, scikit learn, Pytorch, HuggingFace  
**Analytical and problem solving skills:** Through my many years of studying in the field of math and sciences I was able to develop my ability to analyze data, problems, or situations to make informed decisions or recommendations, but also explore solutions, and implement effective problem-solving strategies.  
**Communication Skills:**

- **Verbal Communication:** Clarity, Listening, Tone, Vocabulary, Empathy
- **Non-Verbal Communication:** During my years in Canada where I had to communicate in a foreign language I was able to develop my non-verbal skills, like body language, but also improve my adaptability and confidence

## Awards / Distinctions

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<b>Certificate of Distinction at the Aristotle Contest</b>	<b>2019</b>
<i>by the department of Physics of University of Athens</i>	<i>Greece</i>

<b>Principal's Honour Roll High School Award</b>	<b>2016</b>
	<i>Burnaby North Secondary School, Vancouver</i>

<b>Science Fair Award</b>	<b>Spring 2016</b>
	<i>Burnaby North Secondary School, Vancouver</i>

<b>Athlete of the year Award (grade 9)</b>	<b>2015 – 2016</b>
	<i>Burnaby North Secondary School, Vancouver</i>

<b>Athlete of the year Award (grade 8)</b>	<b>2014 – 2015</b>
	<i>Burnaby North Secondary School, Vancouver</i>

<b>Certificate of Distinction at the Pascal Contest</b>	<b>2014</b>
<i>by the centre for Education in Mathematics and Computing</i>	<i>Canada</i>

## Other Interests

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| <ul style="list-style-type: none"><li>• Sports</li><li>• Hiking</li></ul> | <ul style="list-style-type: none"><li>• Reading Books</li><li>• Camping</li></ul> | <ul style="list-style-type: none"><li>• Working out</li></ul> |
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