

Shannah Santucci

Computer Scientist



PERSONAL DATA

Date of birth

August 22nd 2000

Nationality

German and French

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LANGUAGES

- English
- French (native)
- German

INTERESTS

- Machine Learning
- Robotics
- Electronics
- Augmented Reality
- Web Development
- 3D Modelling

OTHER HOBBIES

- Saxophone
- Athletics
- Travelling

PROFILE

Passionate programmer since the age of twelve. Built my first drone at the age of thirteen. Creating ML solutions for robotics at SIEMENS. Enforcing best practices in Python. High-Performance Computing enthusiast (C++, CUDA, OpenMP, Cython, etc.). Creating front-ends (swift, react, TS, etc.) when developing my own apps.

EXPERIENCE

Working Student, SIEMENS AG; Munich, Germany

Since 09/21

MLOps, Data Version Control, False Calls Reduction, and Trustworthiness in Deep Learning. CI/CD, DVC, Terraform, Python, PyTorch and TensorFlow (NumPy, SKLearn, and Pandas) skills involved.

Intern, BMW AG; Munich, Germany

04/22–10/22

Creation of a new PoC login concept, "Fast Login". Bluetooth LE, AWS, Encryption, Mobile dev., and Kotlin/Swift skills involved.

Web dev., ESIEA; Paris, France

06/19–04/20

After developing my website for a drone club that I created, I proposed to maintain our school of engineering's website: JavaScript, PHP, MySQL, HTML, and CSS skills involved.

EDUCATION

Ludwig-Maximilians-Universität; Munich, Germany — M.Sc., Since 04/24

Student in the eighth semester in the Institut für Informatik.

Ludwig-Maximilians-Universität; Munich, Germany — B.Sc., 04/20–03/23

Bachelor Arbeit — Certification of Model Robustness @ SIEMENS (Grade: 1.0).

ESIEA; Paris, France — Préparation Intégrée, 09/18–03/20

Student of a School of Engineering (Classe préparatoire aux grandes écoles) for four semesters.

SKILLS

Programming:

- C, C++, C#
- Python
- JS, SQL, PHP (HTML, CSS)
- Kotlin, Swift
- Java
- Haskell
- Assembly

Frameworks:

- Numpy, Pandas, scikit-learn
- Cython, CUDA, OpenMP
- TensorFlow
- PyTorch
- SwiftUI
- Angular

Version Control System:

- DVC (w/ MLFlow)
- git (Open-Source Best Practices, CI/CD, Terraform, GitLab and GitHub moderation)

Cloud:

- AWS (Lambda, S3 Buckets, EC2)
- Azure ML

RECENT PROJECTS

Contributing actively to large open-source projects in my free time.

State Vector Simulator; Munich, Germany

HPC State Vector Simulator optimized (Cython and mathematical optimization) and robust. Ran on the super-computer of Munich. Best grade (1.0)

HydroData, Hydrometric Stations; Fontainebleau, France

433MHz LoRa32u4 sensors programming in C for an [IoT project](#) retrieving hydrometric data and displaying it within an iOS "Shortcut App".

SoapBoy, Game Dev.; Munich, Germany

Java [game dev. with other students](#), client-server architecture in C#.

ACHIEVEMENTS

Kimeo, a Franco-Korean robot; Paris, France — 2016

Participating in a development including 22 people from France and Korea, organized by the Fab Lab of the Cité des Sciences. Electronics and C (Arduino) skills involved.

Drone; Paris, France — 2013

Driven by my passion for technology, I created one of the [first completely DIY quadcopters](#) by the age of 13.