Pere Ginebra

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EDUCATION

2022 - 2024	**DTU – Technical University of Denmark** (Copenhagen, Denmark) MSc in Computer Science and Engineering - AI and Algorithms track. Thesis: Deep Learning techniques for threat identification in x-ray images of hand luggage.
January - June 2022	**KTH - Royal Institute of Technology** (Stockholm, Sweden) Exchange studies: BSc Thesis on artificial neural networks and a master's level course in Information Visualization.
2018 - 2022	**UPC - Universitat Politècnica de Catalunya, BarcelonaTech** (Barcelona, Spain) BSc in Computer Science (4 years/240 ECT credits) – Specialization in Computing. Honors courses: Introduction to Software Engineering.
2016 - 2018	**La Farga School** (Mira-Sol, Barcelona, Spain) Pre-university studies. Development of a simple encryption program in the C programming language as a final project.

LANGUAGES

English: Fluent, C1 level (TOEFL score of 113/120)
Spanish: Native
Catalan: Native
Danish: A2 (Very basic)

SKILLS

Programming languages:

- **Advanced:** Python, C++. Can easily adapt to other similar languages.
- **Self-taught:** HTML + CSS, JavaScript (with React and D3.js), C#.
- **Some experience:** Java, C, Haskell, Prolog, Matlab, R, SQL, Assembly, PDDL, OpenGL, OpenMP.

Programs: Jupyter notebooks, GIT, Linux and bash, Microsoft Office suite (excel, word, powerpoint…), GIMP (image editing), LaTeX, Unity game engine, etc.

Computer Science skills: machine learning, computer vision, AI, algorithms, MLOps, programming paradigms, basic computer engineering concepts, basic software engineering knowledge (UML, OOP, unit tests, three-tier architectures, etc), video game development, multi-agent systems, computer graphics…

Recent Projects:

- MSc Thesis: Threat material identification in hand luggage x-ray scans using Neural Networks for segmentation. Developed in partnership with Exruptive, an aviation security company.
- BSc Thesis: Study on the image classification results of Convolutional Neural Networks using different architecture designs. Using python with PyTorch, pandas, Matplotlib and scikit-learn.
- DwarfViz website: group project for the Information Visualization course at KTH. Where we display data from a game world. Used HTML, CSS, JavaScript, React and D3.js. https://www.dwarfviz.com/
- Chicken Run game: 3D runner/scroller game in the Unity game engine (using C#). Pair project for the video games course at UPC.
- My Portfolio: Simple website using HTML, CSS, and JavaScript. https://pereginebra.github.io/
- Kakuro game: Desktop kakuro game group project. For the Programing Projects course at UPC. Developed using Java. https://github.com/PereGinebra/PROP-Kakuro-75

PROFESSIONAL EXPERIENCE

September 2022 – Present	**Cluster for Molecular Imaging – Copenhagen University** (Copenhagen, Denmark) Data Science student assistant Development of machine learning models and scripts to automate various data analysis tasks, with a focus on image data.
June - August 2018	**FUSTES SOLANELLAS S.A.** (Terrassa, Barcelona, Spain) Office work Updated internal pricings and logistic data. Worked closely with the accounting department and helped with other day-to-day tasks in the office-warehouse of this wood distribution company.
July – August 2017	**SPRING CANYON CONFERENCE CENTER** (Buena Vista, Colorado, USA) Hostelry Worked as a maintenance, cleaning, and food service assistant in this family vacation/retreat center. I worked directly with clients when serving food and did physical work in maintenance and while cleaning/preparing the rooms.

ABOUT ME

I'm a naturally curious person; I like learning new things and working with people with different ideas, interests, and ways of working to mine, especially when they show their passion for them just like I do.

In a job I look for: Real world experience, learning from more seasoned colleagues, contributing with my own work and point of view, and growth in general both as a person and a computer scientist. Problem solving is what brought me to programming and later to study Computer Science; I want to keep applying and developing it in my future career.

Some of my interests include tech, music, sci-fi/fiction, fitness, video games, traveling, and learning about different cultures, interesting facts, and data (as well as looking for patterns within these).