ALEXANDRE SAUQUET

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Education

Purdue University, West Lafayette Expected Graduation: **May 2027**

Majors: B.S. Honors Computer Science, B.S. Artificial Intelligence (Dean's List) | *College of Science, John Martinson Honors College* GPA: **3.91/4.00**

Minors: Psychology, Statistics | *College of Health and Human Sciences, College of Science*

Relevant Coursework: Data Engineering In Python (A+), Foundations of Computer Science (Discrete Mathematics focused class) (A), Elementary Linear Algebra (A), Problem Solving and Object-Oriented Programming (A+), Honors Multivariable Calculus (A), Introduction to Cognitive Psychology (A)

In progress: Data Structures And Algorithms, Web Application Development, Computer Architecture, Linear Programming And Optimization Techniques

Professional Experience

E-Lab (Research Laboratory at Purdue) **West Lafayette, IN**

Undergraduate Researcher *November 2023 - Present*

- Researched and created multimodal models to interpret information from all media and perform prompted tasks.
- Created an artificial assistant to answer Forestry-related queries accurately using multimodal reasoning-action (ReAct) prompting.

Duarte, Inc. **Santa Clara, CA**

Jr. AI Engineer Intern *May 2024 - August 2024*

- Implemented advanced AI models within a consulting software solution, enabling the generation of human-like presentations resulting in 29% speed increase (company estimate).
- Engineered sophisticated software leveraging large multimodal models to perform in-depth analysis of diverse user-uploaded content.
- Spearheaded cross-functional collaboration to streamline solution processes and optimize AI-generated outputs, resulting in improved efficiency and quality.

Social Trader (Startup in FinTech) **Palo Alto, CA**

Artificial Intelligence Engineer Intern *February 2024 - May 2024*

- Designed and implemented a generalizable pipeline for stock prediction utilizing state-of-the-art transformer models.
- Developed risk management models leveraging reinforcement learning and decision tree algorithms to optimize returns.

Probability Management (Non-profit lead by Stanford Prof. Savage) **Palo Alto, CA**

Intern *June 2022 – June 2023*

- Drove customer adoption of the SIPmath standard, a standard created by Dr. Savage himself to create statistical relationships that are preserved allowing for better representations of uncertainty.
- Debugged and wrote documentation to add MonteCarlo simulations using newly discovered meta-logistic distributions to consumer-focused software to create more efficient and accurate simulations.

Leadership & Extracurricular Activities

Machine Learning at Purdue **West Lafayette, IN**

Member *November 2023 - Present*

- Participated in the 2023-2024 TE Connectivity Artificial Intelligence cup (International Collegiate competition): 1st place US, 2nd place International.
- Created an action segmentation AI tool to optimize manufacturing of goods using video analysis.
- Created hand detection models for automatic labeling of tasks to generalize the project's pipeline to multiple production lines.

Competitive Programming Union **West Lafayette, IN**

Student/Participant *August 2023 - December 2024*

- Participated in International Collegiate Programming Competition qualifiers and online Codeforces worldwide contests.
- Found efficient solutions to coding problems using algorithms and data structures to further the pursuit of knowledge.

Autonomous Robotics Club **West Lafayette, IN**

Member *August 2023 - December 2023*

- Created autonomous landing systems using visual fiduciary to innovate the way drones can deliver packages autonomously to consumers.
- Implemented and improved more efficient path planning algorithms for rapid re-planning during flight.

Professional References

Nancy Duarte | CEO at Duarte Inc

Relationship: Former Mentor during internship (Summer 2024). nancy@duarte.com | +1 650-625-8200

Awards & Interests

Awards: Winner of Machine Learning at Purdue Hackathon (sponsored by DagsHub), TE AI cup 1st place US, 2nd place international: 5000$ scholarship.

Skills: Java, Python - Tensorflow, Keras, Pytorch, OpenCV, Matplotlib, SKlearn, Metalog, Numpy (Coursera certification from University of Michigan with honors), C, C++, HTML, Git, Github, linux, DagsHub, CVAT, docker.

Languages: French (native), English (bilingual), Spanish (elementary). | **Interests:** Cooking, Traveling, Cats, History.