Arnaud Fauconnet

Full Stack Developer Intern

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Summary

Passionate about computer science and love to have lengthy conversations about it. Autonomous but also capable of communicating and handling people. Overall flexible, adaptable and always curious by new experiences.

Professional Experience

UROP (Undergraduate Research Opportunities Program)	Lugano,	СН	07/2023 - 09/2023
 Among the top 5 students who applied to assist on a research project 			
 Used event cameras and NeRFs for HDR reconstruction (computer graphics) 			
$\bullet~$ Extended the C++ codebase of the project to support HDR simulations			
Teaching Assistant (Università della Svizzera italiana)	Lugano,	СН	09/2022 - 07/2025
• Assisted in the Systems Programming and Programming Fundamentals 2 courses			
• Assisted teachers in grading assignments and exams, helped students with difficult of	concepts		
• Translated a python library documentation and Next.js application from English to	French		
Front-end Developer Internship (TCPOS SA - Zucchetti Switzerland)	Mendrisio,	СН	09/2022 - 12/2022
• Created a website for users to see their expenses and top up their credit			
• Built a React.js application from scratch and interacted with the Paypal API			
Education			
 MSc Software and Data Engineering Università della Svizzera italiana Program language: English. GPA: 9.55/10 	Lugano, CH	09/2	2023 - Exp. 07/2025
• Relevant Courses: Software Design & Modeling, Design 101, Visual Analytics, Advance	ed Java Program	ming,	Advanced Networking
BSc Computer Science Università della Svizzera italiana	Lugano,	СН	09/2020 - 07/2023
• Program language: English. GPA: 9.21/10 (Summa Cum Laude)			
Skills			
 Tools: Git, NeoVim, ArchLinux, Latex, Docker Data Visualization: Pandas, Bokeh, Seaborn, Plotly Development: Test-driven Development, Agile, Scrum, CI/CD, DevOps Soft Skills: Presentation, Planning, Organized, Creative Problem-Solving, Teamwo 	rk, Active Lister	ing, /	Adaptability
Projects			
Ray Tracer github.com/karma-riuk/ray-tracer	C	:++	Side Project, 2024
• Followed the book Ray Tracing in One Weekend by Peter Shirley			
• Extended the project to support more features, such as triangles and multithreading	g for a 4x speedu	р	
Maze Solver github.com/karma-riuk/maze-solver-go		Go	Side Project, 2023
 A maze solver which implements various path-finding algorithms 			
• Learned about well structuring and design software, with unit-testing and dependen			
From Flying Balls to Colliding Polygons github.com/karma-riuk/flying-balls	C+-	⊢ B	achelor Thesis, 2023
• Expansion of an existing physics engine			
• Learned about physics concepts and how to represent them efficiently in code			
Ubuntu Server			Unix since 2019
Maintainance of an Ubuntu server I built			
Languages			
• English [Native] • French [Native] • Italian [Native]	• Ge	erma	n [Conversational]
Hobbies			