

Sina Sajadmanesh

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Welcome to RenderCV!

RenderCV [🔗](#) is a LaTeX-based CV/resume version-control and maintenance app. It allows you to create a high-quality CV or resume as a PDF file from a YAML file, with **Markdown syntax support** and **complete control over the LaTeX code**.

The boilerplate content was inspired by Gayle McDowell [🔗](#).

Quick Guide

- Each section title is arbitrary and each section contains a list of entries.
- There are 7 unique entry types: *BulletEntry*, *TextEntry*, *EducationEntry*, *ExperienceEntry*, *NormalEntry*, *PublicationEntry*, and *OneLineEntry*.
- Select a section title, pick an entry type, and start writing your section!
- Here [🔗](#), you can find a comprehensive user guide for RenderCV.

Education

Swiss Federal Institute of Technology (EPFL), PhD in Electrical Engineering	May 2019 – Aug 2023
Sharif University of Technology, MSc in Information Technology Engineering	Sept 2014 – Sept 2016
University of Isfahan, BSc in Computer Software Engineering	Sept 2009 – Feb 2014

Experience

Sony AI, AI Engineer – Zurich, Switzerland	Oct 2023 – present
<ul style="list-style-type: none"> • Developed an end-to-end open-world classification pipeline using OpenMMLab frameworks and HuggingFace to train and test privacy-preserving vision foundation models for Sony's next-generation AI products. • Improved the speed of training and inference of models by optimizing the code and leveraging distributed computing. 	
Idiap Research Institute, Research Assistant – Martigny, Switzerland	May 2019 – Aug 2023
<ul style="list-style-type: none"> • 3 published papers in top-tier conferences (CCS, USENIX Security, and NDSS) with 185+ citations • 7 invited talks at top universities and research institutions, including Imperial College, UIC, and Twitter • 6 open-source projects with 110+ stars on GitHub • 1 short course taught on "Trustworthy Machine Learning" at Artificial Intelligence Doctoral Academy 🔗 	
The Alan Turing Institute, Visiting Collaborator – London, UK	Mar 2023 – Mar 2023
<ul style="list-style-type: none"> • Co-organized a workshop on "Privacy and Fairness in AI for Health" 🔗 with 60+ attendees 	
Brave Software, Research Intern – Remote	Mar 2022 – May 2022
<ul style="list-style-type: none"> • Developed a novel privacy-preserving federated learning framework for neural bandit models under client heterogeneity using PyTorch, Flower, Dask, and Tensorflow-Lite 	
Sharif University of Technology, Research Assistant – Tehran, Iran	Nov 2014 – May 2019
<ul style="list-style-type: none"> • 4 published papers in top-tier venues (WWW, TKDD, IoTJ, ASONAM) with 430+ citations • 5+ press releases in top-tier media outlets, including MIT Technology Review 🔗, France 24 🔗, and The Independent 🔗 • 2 open-source projects with 20+ stars on GitHub • 1 semester course taught on "Fundamentals of Programming with Python" at Sharif University of Technology 	

Publications

Sina Sajadmanesh, Daniel Gatica-Perez	Mar 2024
ProGAP: Progressive Graph Neural Networks with Differential Privacy Guarantees 🔗 ACM International Conference on Web Search and Data Mining (WSDM)	
Sina Sajadmanesh	Aug 2023
Privacy-Preserving Machine Learning on Graphs 🔗	

Swiss Federal Institute of Technology (EPFL) - Doctoral Thesis

Sina Sajadmanesh, Ali Shahin Shamsabadi, Aurélien Bellet, et al. Aug 2023

GAP: Differentially Private Graph Neural Networks with Aggregation Perturbation [↗](#)

USENIX Security Symposium (**USENIX Security**)

Sina Sajadmanesh, Daniel Gatica-Perez Nov 2021

Locally Private Graph Neural Networks [↗](#)

ACM Conference on Computer and Communications Security (**CCS**)

Sina Sajadmanesh, Daniel Gatica-Perez June 2020

When Differential Privacy Meets Graph Neural Networks [↗](#)

Technical Report, ArXiv e-prints

Seyed Ali Osia, Ali Shahin Shamsabadi, **Sina Sajadmanesh**, et al. May 2020

A Hybrid Deep Learning Architecture for Privacy-Preserving Mobile Analytics [↗](#)

IEEE Internet of Things Journal (**IoTJ**)

Sina Sajadmanesh, Sogol Bazargani, Jiawei Zhang, Hamid R. Rabiee Aug 2019

Continuous-Time Relationship Prediction in Dynamic Heterogeneous Information Networks [↗](#)

ACM Transactions on Knowledge Discovery from Data (**TKDD**)

Sina Sajadmanesh, Jiawei Zhang, Hamid R. Rabiee June 2017

NPGLM: A Non-Parametric Method for Temporal Link Prediction [↗](#)

Technical Report, ArXiv e-prints

Sina Sajadmanesh, Sina Jafarzadeh, Seyed Ali Ossia, et al. Apr 2017

Kissing Cuisines: Exploring Worldwide Culinary Habits on the Web [↗](#)

International World Wide Web Conference Companion (**WWW**)

Sina Sajadmanesh, Hamid R. Rabiee, Ali Khodadadi Aug 2016

Predicting Anchor Links between Heterogeneous Social Networks [↗](#)

International Conference on Advances in Social Networks Analysis and Mining (**ASONAM**)

Projects

Multi-User Drawing Tool [github.com/name/repo](#) [↗](#)

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar [github.com/name/repo](#) [↗](#)

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System 2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Programming Languages: Python, C++, Java, SQL, Shell, \LaTeX

Machine Learning and AI: PyTorch, TensorFlow, HuggingFace, OpenMMLab, PyTorch-Lightning

ML Ops and DevOps: Weights & Biases, Docker, GitHub, Dask, Neptune, Linux

Privacy-Enhancing Technologies: Flower, Opacus, Auto-DP