

Romain Paulus

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Work Experience

- 2024 **Lead Engineer, Tona.ai** (San Francisco, CA/Remote)
 - Lead the production of a full-stack AI-powered platform for music producers
- 2023 **Founding Engineer, Raive** (San Francisco, CA/Remote)
 - Designed, implemented, and scaled music and video generation AI models with diffusion and transformers
- 2020–2021 **Founding Engineer, You.com** (Palo Alto, CA/Remote)
 - Prototyped a full-stack proof-of-concept for a new search engine experience
 - Lead the front-end development of the private beta product with React and NextJS
- 2016–2020 **Lead Research Scientist, Salesforce** (Palo Alto, CA)
 - Improved state-of-the-art performance in abstractive summarization using reinforcement learning and new summary quality metrics
 - Worked on other Deep Learning/NLP research problems: sequence generation, multi-task learning, recommendation systems
- 2014–2016 **Founding Engineer, MetaMind (acquired by Salesforce)** (Palo Alto, CA)
 - Created a full-stack scalable deep learning web application that allows users to train their own image and text classifiers
 - Mentored new engineers as they came on board
- 2013–2014 **Visiting Researcher, Stanford University, AI Research Lab** (Stanford, CA)
 - Researched and implemented novel Recursive Neural Networks
 - Applied algorithms to Sentiment Analysis on Twitter data
 - Developed a web-based app making text classification easy for everyone
 - Used distributed computing to run machine learning models
- 2012–2014 **CTO, L'Appero** (Paris, France)
 - Designed and developed of customer-facing and back-end websites of a food delivery application. Features: activity monitoring, data reporting, statistics and product management
 - Created fast and reliable APIs between back-end server and mobile apps (iOS, Android, web-based)
 - Large media coverage (French TV and newspapers)

Research Publications

- 2021 Andre Esteva, Anuprit Kale, **Romain Paulus**, Kazuma Hashimoto, Wenpeng Yin, Dragomir Radev, Richard Socher: *Co-search: Covid-19 information retrieval with semantic search, question answering, and abstractive summarization* (**Nature** Digital Medicine)
- 2018 Wojciech Kryściński, **Romain Paulus**, Caiming Xiong, Richard Socher: *"Improving Abstraction for Text Summarization"* (EMNLP 2018, **oral**)

- 2018 **Romain Paulus**, Caiming Xiong, Richard Socher: "*A Deep Reinforced Model for Abstractive Summarization*" (ICLR 2018)
- 2016 Ankit Kumar, Ozan Irsoy, Peter Ondruska, Mohit Iyyer, James Bradbury, Ishaan Gulrajani, Victor Zhong, **Romain Paulus**, Richard Socher: "*Ask Me Anything: Dynamic Memory Networks for Natural Language Processing*" (ICML 2016)
- 2014 **Romain Paulus**, Richard Socher, Christopher D. Manning: "*Global Belief Recursive Neural Networks*" (NIPS 2014)

Education

- 2013–2014 **Stanford University**, Visiting Researcher at Artificial Intelligence Lab
- 2009–2014 **ISEP (Paris, France)**, Masters Degree, CS and Engineering

Technical Skills

- Programming Python, JavaScript, Java, PHP
- ML PyTorch, TensorFlow, Chainer
- Web Dev React, Node, MongoDB, Flask, Angular, Ruby on Rails

Languages

- English** Fluent
- French** Native speaker
- Spanish** Intermediate

Work Authorization Status

Authorized to work in the US