Daniel Perez

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education

Sep 2018 – Present	*PhD student* at **Imperial College London**	London, UK
	Research on how to improve the security of blockchain and its ecosystem.	

Mar 2018	*Master of Computer Science* at **The University of Tokyo**	Tokyo, Japan
	Specialization in machine learning application to programming languages. Worked on cross-language source code clone detection using semi-supervised learning. Created clone detection dataset and implemented LSTM based model to detect clones.	

Sep 2013	*Bachelor of Computer Science* at **Waseda University**	Tokyo, Japan
	Specialization in operating systems and distributed systems. Graduated as Computer Science department representative	

Jun 2008	*French Baccalauréat* with high honours	Paris, France
	Scientific series with physics specialization	

work experience

Apr 2018 – Present — *Machine Learning Engineer* at **Uzabase, Inc.** — Tokyo, Japan

Working on various natural language processing tasks such as entity extraction, text classification or recommender systems.

Aug 2014 – Aug 2018 — *Founder and CTO* of **Claude Tech, Inc.** — Tokyo, Japan

- Make our product Buildy profitable after ~2 years
- Project management in a team of 4-5 persons
- Full stack development (backend, frontend, DevOps)

Mar 2017 – Mar 2018 — *Freelance Software Engineer* for **Recruit Institute of Technology, Inc.** — Tokyo / Mountain View, CA

- Design and development in Python of Joybot, a chatbot system
- Development of chatbot natural language understanding module

Aug 2013 – Apr 2015 — *Freelance Software Engineer* for **Recruit Co., Ltd.** — Tokyo, Japan

- Development of Usagi Note web API in Ruby. First service to exit Recruit Ventures
- Development of webservice backend in Java

Jan 2013 – Aug 2014 — *Software engineer* at **Institute of Information Technology, Inc.** — Tokyo, Japan

- Joint research with Institute of Information Security on Linux security. Kernel patches and modules development
- Image recognition algorithms development for billiard game analysis software with C# and OpenCV

Oct 2013 – Feb 2014 — *Software engineer* at **Fringe 81 inc** — Tokyo, Japan

- Development and evaluation of fingerprint based browser tracker
- Design and implementation of realtime log analysis system

Oct 2012– Dec 2012 — *Software engineer internship* at **GREE, Inc.** — Tokyo, Japan

- Development of flare, a key/value store written in C++
- Development of a blob storage written in Haskell

research activities

Cross-language clone detection by learning over abstract syntax trees
   Daniel Perez and Shigeru Chiba
   2019 IEEE/ACM 16th International Conference on Mining Software Repositories (MSR), 2019

PoolSim: A Discrete-Event Mining Pool Simulation Framework
   Sam Werner and Daniel Perez
   2019 1st International Conference on Mathematical Research for Blockchain Economy (MARBLE), 2019

Smart Contract Vulnerabilities: Does Anyone Care?
   Daniel Perez and Benjamin Livshits
   CoRR *abs/1902.06710 (2019)*. 2019

projects & links

BigCode tools
BigCode tools is a set of tools developed as part of my research to work with source code. It contains tools to help with source code preprocessing, such as vocabulary generation and token embeddings.

DeepSentence
Multi-source summarization application using abstractive summarization for title generation. Awarded research grant of ~1000$ for the project.

Atomic Chrome
Atom editor and Google Chrome plugin to live edit textareas directly in Chrome. Plugin has >50k downloads and has been on Hacker News top and Atom featured packages.

awards

June 2015	**Paypal Battlehack 2015 Japan winner and world finalist**	Tokyo, Japan
	Developed TalkNPick, a video editing system which automatically tracks audio input fluctuations and extracts the most important segments in a video.	
Mar 2014	**TBS TV Hack Day perfection award, PUX and Gracenote awards**	Tokyo, Japan
	Developed Conductor, a system which enables to control TV with just one finger by using Leap Motion.	
Feb 2014	**Open Hack Day Japan 2 winner and IDCF award**	Tokyo, Japan
	Largest hackhaton in Japan (>300 participants). Developed SmartWalk, an application which helps people walking safely while looking at their phone.	

activities

Apr 2016– Apr 2017	**Tech talks about Elixir programming language**	Tokyo, Japan
	Talked at Japan Elixir conference ElixirConf (~300 participants) and gave various talks at Japan's largest Elixir meetup tokyo.ex.	
Jun 2014 – May 2015	**Selected for Mitou program 2014**	Tokyo, Japan
	Granted ~20k$ by Japan Information-technology Promotion Agency to develop Buildy, a service to help small businesses to easily create and customize their own mobile website and application.	

languages

French	native		**Japanese**	fluent	(JLPT N1 165/180)
English	fluent	(TOEFL iBT 108/120)	**Spanish**	intermediate	