

# Daniel Perez

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## education

- Apr 2014 – *Master of Computer Science at **The University of Tokyo*** Tokyo, Japan
- Mar 2018 *two gap years to work on my startup*  
Specialization in machine learning application to programming language analysis.  
Worked on cross-language source code clone detection using semi-supervised learning.  
Created clone detection dataset and implemented LSTM based model to detect clones.
- Apr 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

- Aug 2014 – *Founder and CTO of **Claude Tech, Inc.*** Tokyo, Japan
- Present
- Make our product Buildy profitable after ~2 years
  - Project management in a team of 4-5 persons
  - Backend development, mainly in Elixir and Ruby
  - Frontend development in JavaScript
  - Deploy and release management, build automation
- Mar 2017 – *Freelance Software Engineer for **Recruit Institute of Technology, Inc.*** Tokyo / Mountain View, CA
- Mar 2018
- Design and development in Python of Joybot, a chatbot system
  - Development of chatbot natural language understanding module
- Aug 2013 – *Freelance Software Engineer for **Recruit Co., Ltd.*** Tokyo, Japan
- Apr 2015
- Development of Usagi Note web API in Ruby. First service to exit Recruit Ventures
  - Development of webservice backend in Java
- Jan 2013 – *Software engineer at **Institute of Information Technology, Inc.*** Tokyo, Japan
- Aug 2014
- 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 – *Software engineer at **Fringe 81 inc*** Tokyo, Japan
- Feb 2014
- Development and evaluation of fingerprint based browser tracker
  - Design and implementation of realtime log analysis system
- Oct 2012– *Software engineer internship at **GREE, Inc.*** Tokyo, Japan
- Dec 2012
- Development of flare, a key/value store written in C++
  - Development of a blob storage written in Haskell
- Apr 2011– *CTO at **Aetel, Inc.*** Tokyo, Japan
- Aug 2012
- Web service JavaScript frontend and PHP backend development
  - Project management in a small team

## research activities

Cross-language clone detection by learning over abstract syntax trees

Daniel Perez, Shigeru Chiba

submitted to ESEC/FSE (2018), preprint at <https://daniel.perez.sh/research/2018-cross-language-clones.pdf>

Using competitive programming data to detect code clones

Daniel Perez, Shigeru Chiba

poster presented at PPL'2018, Tottori, Japan. copy at <https://daniel.perez.sh/research/2018-code-clones-poster.pdf>

## projects & links

### BigCode tools

BigCode tools is a set of tools developed as part of my research to work with source code. It mainly contains tools to help source code preprocessing, for example, generating vocabulary and token embeddings from a large amount of code.

### DeepSentence

Multi-source summarization application using extractive summarization for content generation and abstractive summarization for title generation developed as part of AI class. 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.  
Worked on the sound recognition and video processing server.
- 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. Worked on the finger tracking algorithm and the control server.
- Feb 2014 **Open Hack Day Japan 2 winner and IDCf award** Tokyo, Japan  
Largest hackathon in Japan (>300 participants). Developed SmartWalk, an application which helps people walking safely while looking at their phone. Worked on the motion detection algorithm and the real time notification system.

## activities

- Apr 2016– Present **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

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