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Skills

| | |
|---------------------------------|---|
| Programming experience | Scheme, JavaScript, Python, PHP, Ruby, C, Bash, Java, Scala, Haskell, GNU R, SQL, LaTeX |
| Programming occasionally | Common Lisp, Clojure, Elixir, Prolog, OCaml, Octave/Matlab, C++, MOS6510 assembly, ... |
| Technologies used | Linux, emacs, git, make, AWS, VirtualBox, Docker, ZFS (OpenSolaris/FreeBSD), Redis, Selenium, ... |
| Natural Languages | Polish (native), English (FCE B2), Spanish (A1, learning A2) |
| Other | teamwork, remote, Scrum, Jira, applying mathematics, public speaking/performing |

Experience

SentiOne

Poland, Spain (remote)

RESEARCH ENGINEER

Dec. 2017 – PRESENT

- design & implementation of complied information extraction language MTT used in social media listening and chatbots engine (Scheme, js, Python), with browser-based development platform used by SentiOne and its clients (Python/Flask, js/ace.js/peg.js, bootstrap)
- inventing, prototyping, evaluating and documenting numerous NLP systems/modules (MTT, Python, Scala, Scheme)
- maintenance, extending and patching of existing/third-party NLP systems (Python/Flask+Docker+Redis, PHP, Scala, Haskell)
- design & implementation of browser-based platforms for text annotation and statistics (Python/Flask, js/jquery, bootstrap)
- conducting research on state-of-art NLP technologies, grant applications and reporting
- co-implemented NLP research grant projects: *Senti Cognitive Services* (2018-2020, 2.6M EUR), *Senti Deep Fusion* (2022-2023, 5.3M EUR)
- co-authored paper <https://link.springer.com/article/10.1007/s13278-023-01140-6>

we're agile

Spain

SENIOR PROGRAMMER

Sep. 2017 – Nov. 2017

- automated generation of PHP code from SQL schema (Ruby, SQL, PHP/Laravel)
- building fancy widgets, debugging and fixing of legacy code (js, Python, PHP)

jobfeed / Coosto

Spain/Netherlands

PYTHON PROGRAMMER

Sep. 2016 – Jul. 2017

- maintenance and development of massive scraping infrastructure (Python, Bash, zombie.js, Selenium)
- development of web-based tools for scripters (PHS, js)

fido intelligence / fido:labs

Poland, Spain (remote)

SENIOR PROGRAMMER/MATHEMATICIAN/SUNDAY ADMIN

Jun. 2013 – Apr. 2016

- design & implementation of LDQL, a patented query language for an English parser (Scheme)
- programming information extraction scripts (LDQL, Stanford's NLP tools, regexes)
- lean webapp prototyping for NLP systems (PHP/Symfony, js/jquery, SQL, nginx)
- co-authored patent <https://patents.google.com/patent/US9152623B2/>
- breaking and fixing many things (from Linux/AWS administration to CSS tweaking)
- co-authored large cloud-based text processing system (PHP, AWS, SQL/RDS, nginx)
- design & implementation of tiny pattern-matching language (Java)
- co-implemented NLP research grant *PAKO* (2014)

Enovatis SA

Poland

JAVA/PHP SENIOR PROGRAMMER

Jan. 2011 – May 2013

- maintenance of big multi-source data retrieval system (Java)
- automating testing of web services (PHP/Selenium)
- implementing new features in company's CRM (PHP, SQL)

Freelance Jobs

Poland

PHP/JAVASCRIPT PROGRAMMER

Mar. 2010 – Nov 2011

- built webstores roen.pl and zemastyle.pl (PHP/prestashop)
- custom-made CRM systems Rafal Brzoskowski Catering and Solace z o.o. (PHP, js, apache2)
- "bug-fixing emergency" for you-ebook.com (PHP)

Solph Polska z o.o.

Poland

RUBY/C JUNIOR PROGRAMMER

Jul. 2008 – May 2009

- porting Linux tools to OpenSolaris (Bash, c, make)
- implementing web interfaces for Network Array Storage system (Ruby/Webrick)
- helping with NAS service/maintenance (Linux)

Education

Technical University of Gdansk

B.SC. IN APPLIED MATHEMATICS (INDIVIDUAL EDUCATION PLAN)

- thesis “*On mathematical methods in programming computational processes*”

Gdansk, Poland

Oct. 2007 – Feb. 2013

University of Gdansk

INFORMATICS AND ECONOMETRICS, INTERRUPTED

Gdansk, Poland

Oct. 2004 – Jun. 2007

Online courses

- www.coursera.org – “*Machine Learning*” – score 97.25% (Jul. 2018 – Sep. 2018)
- www.coursera.org – “*Functional Programming Principles in Scala*” – score 100% (Nov. 2017)
- ai-class.com – “*Introduction to Artificial Intelligence*” – score 91.8% (Oct. 2011 – Dec. 2011)

Extracurricular Activity

Livestreamings

GUEST

Jan. 2022 – May. 2022

- filozofiaprogramowania.escola.pl, a podcast on the history and philosophy of computer programming (in Polish)
- *Escola Codewars*, bi-weekly live codewars challenges streamed as part of Escola Devtalks (in Polish)

Programming challenge sites

MEMBER

Dec. 2015 – PRESENT

- www.codewars.com – 2Kyu, 4431 Honor
- projecteuler.net – level 2, 69/611

Gamejams

PARTICIPANT

- Jan. 2022 itch.io *WASM-4 Game Jam*, game rated 4th of 44 (C,WASM-4)
- Apr. 2016 ludumdare.com *mini Ludum Dare 67* (js)
- Apr. 2016 ludumdare.com *Ludum Dare 35*, game rated 58th of >1k (js)
- Jan. 2014 *Hack 3city Game Jam* on-site, the team of three (Scheme)

Meetups

MEMBER

[meetup.com](https://www.meetup.com)

Jul. 2015 – PRESENT

- *Python meetup*, Eindhoven (presented a toy programming language CONSPiracy)
- *Bay Area Lisp & Scheme Users Group*, Mountain View, CA (presented a hobby compiler)
- *Alicante Tech meetup group*, Alicante (conducted 2 workshops on programming in Scheme)

Special Interest Groups

MEMBER

Oct. 2008 – May 2015

- *SIG of Mathematics* (Technical University of Gdansk) – 18 lectures and workshops, 5 undergrad conference talks
- *SIG of Logic* (University of Gdansk) – 2 workshops, 1 undergrad conference talk

Important Drone Records

FOUNDER

Dec. 2018 – PRESENT

- Curating, mastering, selling and promoting held tone minimalism on cassettes and files