

# Jernej JERIN

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Celje, Slovenia | 24 July 1989  
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## WORK EXPERIENCE

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| <i>Current</i><br>JAN 2017 | <b>Software engineer at TRUSTYOU GmbH</b><br><i>Backend engineer</i><br>Part of a team that develops platform for partners, called TrustYou Connect. Developing core back end that receives and returns data to external partners, such as RESTful API development, domain logic for managing the control flow of processing new guest stays and hotel data, etc. Helping establish proper CI/CD development process by also writing extensive tests using pytest while developing new features. Porting project code base from Python 2.7 to Python 3.6. Researching potential usage of AWS to design more efficient REST API. |
| SEP 2015-JAN 2017          | <b>Software developer at LYST Ltd., Remote</b><br><i>Web crawler and infrastructure developer</i><br>Developing and maintaining crawlers for one of UK's top startups using Web crawling framework Scrapy. Working on a backed end infrastructure for crawlers, coming up with ideas how to efficiently monitor and report crawler status via multiple channels, such as Slack, OpsGenie and custom dashboard.  |
| JUL 2014-FEB 2015          | <b>Intern at SRC d.o.o.</b><br><i>.NET Software engineer</i><br>I worked as a full time software developer at SRC d.o.o. for 8 months as a student. My main assignment was to work on information system that is used by the Office of the State Prosecutor General of the Republic of Slovenia, District State Prosecutor's Office and State Attorney's Office. My main assignments were integrating new functionalities to the back end and developing front end web form applications. The greater part of my work there was integrating a replacement for generating reports based on templates called Docentric            |
| JUL 2011-SEP 2012          | <b>Software developer at HIS D.O.O.</b><br>I worked as a part time Software developer at HIS d.o.o. for 14 months as a student. Development on a general ledger using Microsoft stack. My assignment was developing Windows forms applications, which included designing GUI and implementing application logic using Visual Studio 2010, accessing data using ADO.NET, editing relational databases using Microsoft SQL Server 2008.   |

## EDUCATION

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- 2012-2014 Master's degree program in **COMPUTER and INFORMATION SCIENCE**,  
**University of Ljubljana, Faculty of Computer and information science**,  
Ljubljana  
Thesis: "In progress"
- 2008-2012 Bachelor's degree in **COMPUTER and INFORMATION SCIENCE**,  
**University of Ljubljana, Faculty of Computer and information science**,  
Ljubljana  
Thesis: "Information system integration with devices on case of  
meteorological station" | Advisor: prof. dr. Matjaz BRANKO JURIC
- 2004-2008 **School centre Celje**  
Visited technical grammar school which provided good foundation for further technical studies.

## COMPETITIONS

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- Zemanta challenge* | [Distributed RSS/Atom reader](#)  
April - May 2014  
Distributed system for reading RSS/Atom feeds. The system reads feeds, parses them and saves new entries into database. It also pulls the full content of the entry into database. The system is horizontally scalable (workers and multiple threads per worker) and resilient to partial outages (using message broker). The system uses MongoDB for persistent storage and Apache ActiveMQ for distributing workload. This project was done for a challenge which was organised by Zemanta and Faculty of Computer and Information Science, University of Ljubljana. The project was selected as the best solution in the category of distributed web page aggregation and has consequently won the challenge in that category ([news in English](#), [news in Slovenian](#)).
- Celtra challenge* | [Multiplayer game \(Sokoban\)](#)  
Oct - Nov 2014  
Implementation of Sokoban multiplayer game on node.js. The game supports creation of new game rooms, joining game rooms, multiple players per game, real time communication using Socket.io, etc. A lot of energy was invested into making correct client/server synchronization and enforcing consistency on both sides. The project was selected as the best solution in the category of HTML5 multiplayer game and has consequently won the challenge in that category ([news in Slovenian](#)).

## PERSONAL PROJECTS

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- Meteo station* | [Meteorological station Zalec](#)  
Aug 2008 - Present  
A personal project or should I say a sandbox for learning and experimenting with new exciting technologies. The project went through three different back end technology stacks, beginning with PHP, then Java EE 6.0 and currently Python. The front end is HTML, CSS and Javascript. The system consists with a complex back end for storing and computing meteorological data. There is also a nice browsable RESTful API for accessing data. The data is taken from the meteorological station Davis Vantage Pro2, residing in homemade instrument shelter. The hosting for the back end is done on cloud platform OpenShift, for static file distribution and for backend storage we use S3 by Amazon Web Services.
- Personal page* | [Portfolio page & blog](#)  
May 2015 - Present  
My home page including my work on personal projects, competitions, blog, etc..

## LANGUAGES

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SLOVENIAN: Mothertongue

ENGLISH: Fluent

GERMAN: Basic Knowledge

## COMPUTER SKILLS

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Basic Knowledge: PHP, MySQL, LINUX, HTML, Ubuntu,  $\LaTeX$

Intermediate Knowledge: Python, Java, Javascript, C#

## INTERESTS AND ACTIVITIES

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Technology, Meteorology, Multicopters, Open-Source, Programming  
Running, Fitness, Hiking, Cycling, Chess, Table tennis