

# Sergey Polzunov

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## INTERESTS

Passionate about building web services from scratch, prototyping new ideas, creating data processing pipelines and evolving complex software systems.

GitHub profile - <http://github.com/traut>

## EXPERIENCE

**Software Engineer, EclecticIQ**, Amsterdam, the Netherlands (November 2014 - Present).

- As a member of the backend engineering team, was involved in the design, implementation and evolution of the EclecticIQ Threat Intelligence Platform (TIP).
- Author of open source TAXII server and client implementations: OpenTAXII server and Cabby client library.
- As a member of Fusion Center team — a team of Cyber Threat Intelligence (CTI) analysts with expertise in the public and private sectors, working on fusing streams of intelligence from multiple sources — I've participated in the design, implementation and support of CTI data processing pipeline delivering intelligence products to Fusion Center's customers, representing critical infrastructure, government, financial sector, and national security. The data pipeline accumulated more than 50M STIX entities in Fusion Center's knowledge database. As a member of the team, I also participated in analysis and investigation work.
- Ran multiple Proof of Concept initiatives, developing the tools and solutions, helping the analysts to be more efficient by inventing novel ways for intelligence processing, visualisation and automated analysis. Some product PoCs, designed together with Fusion Center analysts, became official EclecticIQ Intelligence products. Another PoC my colleague and me [presented at FIRST Cyber Threat Intelligence symposium](#).
- As a member of [OASIS Cyber Threat Intelligence Technical Committee](#) (the group tasked with design and evolution of STIX and TAXII standards), I participated and contributed to the development of STIX/TAXII. OpenTAXII server was one of the first open source implementation of TAXII 1.0/1.1 server specification.

**Software Engineer, RIPE NCC**, Amsterdam, the Netherlands (February 2011 – October 2014).

- As a member of GII (Global Information Infrastructure) team is responsible for implementation and maintenance of the core data processing pipeline based on Hadoop. The pipeline handles daily, hourly and real-time processing of multiple data streams: BGP updates from [RIS](#) project, [Atlas](#) project's measurements, Maxmind GeoIP database dumps, etc.
- Designed and implemented various data views and derived datasets (in HBase) which are used to provide real-time results for [RIPEstat](#) service.

Technologies: Hadoop (HBase, Pig, Flume), Python (Flask), Ansible.

**Freelance Python Developer**, Kyiv, Ukraine (October 2009 – February 2011).

Technologies: Python (Django, Pylons), client side JavaScript (jQuery, Mootools), server side JavaScript (node.js), git/svn.

**Software Engineer and Founder, FlatFinder.com.ua**, Kyiv, Ukraine (February 2009 – January 2011).

- Developed a web-service which was helping people to find apartments for long-term rent in Kyiv, Ukraine.

Technologies: Python (Django), JavaScript (jQuery, Mootools, Node.js), DB (MySQL, CouchDB), Lucene (Solr), Memcached, git, virtualenv.

**Software Engineer, Viewdle**, Kyiv, Ukraine (March 2008 – October 2009).

- Developed a number of internal pipeline tools and web services.
- Took part in different kinds of UI prototyping (HTML and JavaScript code for XULRunner-powered application, and PyGTK code for Nokia Maemo 5).
- Implemented pipeline nodes as AWS instance workers and queue based communication system.

Technologies: Java (Jetty, JSP, Hibernate, JUnit), Lucene, JavaScript (Prototype), Python (PyGTK), DB (Sqlite, MySQL), Amazon Web Services, svn.

## OPEN SOURCE

- **OpenTAXII**, a robust Python implementation of TAXII Services that delivers rich feature set and friendly pythonic API. <https://opentaxii.readthedocs.io/en/stable/>
- **Cabby**, a simple Python library for interacting with TAXII servers. <https://cabby.readthedocs.io/en/stable/>
- **Stixview**, embeddable JS library for STIX2 graphing. <https://github.com/traut/stixview>

## **EDUCATION**

MEng Computer systems and networks (1.5 years of studying), The Faculty of Informatics and Computer Engineering, National Technical University of Ukraine "Kyiv Polytechnic Institute", 2009.

BE Computer systems and networks (4 years of studying), The Faculty of Informatics and Computer Engineering, National Technical University of Ukraine "Kyiv Polytechnic Institute", 2007.

Recommendations can be found in LinkedIn profile <http://linkedin.com/in/polzunov>