Przemysław Spodymek

Curriculum Vitae

Summary

My name is Przemysław Spodymek, I am a **Python Developer** with 6 years of work experience, including exposure to **Django and JavaScript**. As an enthusiast of new technologies, I enjoy learning about computer science. My experience covers a variety of Python-based projects. Recently I finished my MSc thesis in Computer Science. Since 2014 all projects I have been involved in were remote. I am used to depending on mail/slack communication with daily and weekly meetings. In my free time I enjoy photography, sports, travels and coffee.

Experience

2014 – 2017 **Python Developer**, *10Clouds*, Wrocław.

- **Truststamp** As R&D team member I was delegated to find a solution for a couple of strategic issues. One of them involved filling a simple user form based only on a photo of one's ID. My solution was composed of multiple steps: OCR, state detection, extrapolation of ID edges, creating and applying data layout templates. The results were highly accurate, which was the primary requirement. This and other subprojects at Truststamp required **fluency** not only in **Python**, but also in: **Django**, **Nginx**, **Supervisor**, **Celery**, **Ansible**, **JavaScript**. Some other tools and parts of project taught me technologies like: Tesseract, Tensorflow, Google Cloud Vision, OpenCV, Flask, HTML5 Canvas, scrapy and many more.
- **KITT.AI NLU** is a Natural Language Understanding engine able to hold a multi-turn conversation. One of my tasks was to implement payments and limits tracking. Because NLU was one part of a bigger system, it was challenging to synchronize user quota. As a final solution, I created a separate service aggregating used resources and handling a Stripe connection. This task taught me how to handle complex payments with **Stripe**. During this project I mainly used my knowledge of **Django** and **Django Rest Framework**. Other technologies I used include: **JWT**, **Nginx**, **Vagrant**, **Ansible**, **Celery** and **Amazon S3**.
- **SnowBoy** is an offline hotword detection engine which can use different hotword models ("OK, Google", "Alexa" or any other sentence). I was given software for training such models and my task was to create an online platform for hotword creation. The most difficult part of this was reliable and fast streaming of audio blobs from browser to server. I have solved this problem by implementing two types of endpoints: **websocket** (using **Tornado**) and standard **REST API** (**Django Rest Framework**). Both were pepared as **AMI** for **Amazon Elastic Load Balancer**. End result was highly **scalable** with instant feedback of detected hotword. In addition, the solution used such technologies like: **Amazon S3**, **Amazon RDS**, Nginx and Supervisor.

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- **Tobacco Watcher** is real-time surveillance system monitoring tobacco-related events on the web. My responsibilities in this project were very wide as the project consisted of many distinct parts. I was working on tuning custom **web crawlers** (Google, Bing, Twitter, RSS), **Celery**, **Solr** search server, **MongoDB** database and other parts of this complex system. Some tasks required running **MapReduce** scripts and analyzing gathered data. During this project I gained a better understanding of **MongoDB** and **Celery**.

2011 – 2013 **Python Developer**, *10Clouds*, Warsaw.

As back-end developer, I worked on several **crowdsourcing** and ecommerce projects. Most of the time I was working in **Python** (Django), but I was also responsible for **JavaScript** programming, system design and **deployment** with **continuous integration**.

2010 **Software Engineering Intern**, *Samsung R&D Poland*, Warsaw.

As a mobile phone developer, I have contributed to creation of two games for Bada phones. During summer internship I was responsible for developement of mobile IM application (system design, protocol implementation and front-end).

Education

2016 **MSc in Computer Science**, *University of Warsaw*, Warsaw.

Wikipulse: supporting Wikipedians through article suggestion. In my thesis I implemented a tool facilitating Wikipedians work and encouraging new users to contribute to Wikipedia by suggesting articles to edit. WikiPulse combines **TF-IDF text analysis** and **web crawlers**. I used **Hadoop MapReduce** to process all Wikipedia articles and crawled data. WikiPulse was deployed for a few weeks. During this time its precision of suggestions was good (more than 60% of relations were scored by testers as accurate). I learned how to work with **Hadoop MapReduce** on cluster with **Slurm**. Other tools I used in the project included: Python, Go, Fabric, Django, Celery.

Skills

My usual stack	Python, Django, Nginx, Supervisor, Amazon Web Services, Ansible, PostgreSQL
I am good at	Python, PEP8, Django, Celery, Git
I work on	Linux & MacOS
Experience with	Django Rest Framework, Tornado, Flask, JavaScript, Shell, LaTeX, Hadoop, RabbitMQ, MongoDB, Stripe, Crowdsourcing, Web Crawling, Web Service Design, Computer Vision, Map Reduce, Continous Integration, TDD

Interests

Linux, Computer Vision, Neural networks, Game design

Swimming, Gym, Photography, Travels, Science

Languages

English	Professional working proficiency
Polish	Native

Websites

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