

**Natalia Plishkina**  
Back-end Web Developer  
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### Professional Experience

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Jul 2014 - present, took a long break for personal reasons, looking forward to resuming my career.

**Alfacom LLC** (Internet service provider), Veliky Novgorod, Russia

**Software engineer**, Aug 2011 - Jul 2014

- Maintained the company's web portal (for users and staff) built with Django: implemented new features, and fixed bugs.
- Created a web interface for the staff to remotely update users' access points' firmware, using Redis for communication between the web page and the update script; and Paramiko to run the update commands over SSH.
- Created a white-label version of the company web portal which was sublicensed to a different ISP.
- Wrote scripts in Python (for example, for loyalty rewards distribution to users) and scheduled them with cron.
- Configured a read only replica of PostgreSQL server; set up and maintained database backups.
- Assisted management with analytics by writing various SQL queries.
- Attempted to rebuild the company's web portal as a SPA using Angular.js for the front-end.

**Aviadvigatel JSC** (an aircraft engines manufacturer), Perm, Russia

**Engineer of the department of dynamics and strength**, Sep 2007 - Oct 2010

- Processing results of jet turbines vibration tests, performing data analysis, and writing reliability reports.

### Portfolio Projects

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**Schedule**, <https://github.com/nvp85/schedule>

A web application built with Django for creating and managing a daily appointment schedule. Also allows a user to generate an invitation link with a UUID for other people so they can book an event (like a call or a meeting) with the user within time slots, the user set in their profile. The site takes into consideration time zone differences.

**Dictionaries aggregator**, [https://github.com/nvp85/dicts\\_aggregator](https://github.com/nvp85/dicts_aggregator)

A web application that provides a unified interface for word lookup across multiple online dictionaries, using their APIs. Currently it supports Oxford and Yandex dictionaries. Crafted with Django and powered by PostgreSQL for my own use as a language learning tool.

**Fitness tracker**, [https://github.com/nvp85/fit\\_app](https://github.com/nvp85/fit_app)

A bootcamp learning project built with Flask, SQLAlchemy, Alembic and Postgresql. It's a RESTful fitness web application with endpoints for managing user data, food nutrients, exercises, and tracking daily activities and calorie intake.

**Appointment manager**, [https://github.com/nvp85/vet\\_appointment\\_manager](https://github.com/nvp85/vet_appointment_manager)

A simplified appointment manager API for an imaginary veterinary clinic, built with Django REST framework and Postgresql. Its functionality allows to store and manipulate basic information about the clinic staff, clients, pets, as well as book or cancel appointments. This is a learning project developed as part of the Nucamp coding bootcamp course "Modern Software Engineering with DevOps".

**Russian card game "Fool"**, [https://github.com/nvp85/card\\_game](https://github.com/nvp85/card_game)

A card game with a text-based user interface written in Python, it's a learning project made during the Nucamp coding bootcamp course "Python Fundamentals".

### Skills

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Primary expertise: Python, Django Web framework, Django REST framework, Flask, Git, PostgreSQL, SQL  
Basic proficiency: JavaScript, HTML, CSS, Docker, Kubernetes, AWS, Google Cloud Platform, Azure

### Education

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Nucamp Coding Bootcamp - Backend, SQL, and DevOps with Python, 3/2022

Perm State University, Russia - Bachelors in mechanics, 2002-2007

### Languages

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Russian, English