Andrea Vos

Full-Stack Software Engineer

they/them

Versatile software developer
with a proven record of getting things done.

Hello! I'm a software engineer with a passion for clean code and quick problem-solving. I'm experienced in building scalable web applications and robust ETL pipelines, across diverse domains including energy and e-commerce. I'm a jack of all trades, always eager to learn new skills and technologies, to collaborate, to share knowledge and to innovate.

⌂ Delft 🇳🇱

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⚙ Select skills

- Problem-solving, critical thinking, algorithms & data structures
- Python, Pandas, Polars, Pytest, C#
- PHP, Symfony, Doctrine, JS, (S)CSS, VueJS
- SQL and NoSQL databases, ORMs
- Server management: Linux, Windows, AWS, Docker
- Mentoring and leading a technical team

🌐 Languages

- **Polish** – Native
- **English** – Fluent
- **German** – Advanced
- **Dutch** – Intermediate

💼 Experience

Novi Labs / ShaleProfile B.V.

▣ Data Technical Lead ♡ Rotterdam 📅 June 2018 – currently

Python Pandas Polars Airflow C# Postgres Selenium AWS Docker Pulumi

- Responsible for the designing, building and maintaining ETL pipelines processing both public and proprietary data on oil & gas production in North America, using Python, Pandas, Polars, C# and Python.
- Leading a team of data engineers; recruiting; mentoring; giving feedback; coordinating priorities with the product team.
- Monitoring the setup, addressing operational issues, monitoring and optimising performance – including for example cutting execution time of a TX pipeline from over a week in the legacy setup, to under half a day, and then scaling it to handle conventional wells (~20x the data).

💼 Experience

- Maintained company''s on-premises servers and AWS infrastructure.
- Implemented an application to schedule, monitor and alert about problems within the internal processes, along with a VueJS graphical interface; later replaced with Airflow orchestration.

- Built a system for fetching, OCR-ing, parsing and analysing directional surveys; built a 3D map of geological formations in Texas; created a system to manage and benchmark multiple machine learning and time series analysis models to forecast future well production.

Kolektyw „Rada Języka Neutralnego"

🪪 Co-founder, Activist　　◇ Remote　　🗓 July 2020 – currently

Node　**Vue**　**Nuxt**　**SQLite**　**Puppeteer**　**HunSpell**　**IndieWeb**　**Management**　**Administration**

- Created the website zaimki.pl / pronouns.page, both backend and frontend, using Node, Vue, Nuxt. The website is reaching 5M+ monthly pageviews and has 1M+ registered users across 19+ language versions.
- Activism work in the area of promoting inclusive, gender neutral and nonbinary language – especially in Polish, where nonbinary people face unique challenges.
- Managed and organised internal affairs of the collective and coordinated the work of 100+ contributors.

- Managed the project's VPS and AWS infrastructure, including optimisations for rapidly increasing load while keeping it affordable for a non-profit collective.
- Consulted on multiple academic papers and on translations of "singular they/them" into Polish, including for multiple AAA games and published books.
- Developed, performed, and analysed the first and biggest large-scale study of nonbinary language among Polish speakers („Niebinarny Spis Powszechny"; sample size of 3k+), as well as annual follow-ups.

Semigator GmbH

🪪 Full-stack Software Engineer　　◇ Berlin　　🗓 November 2017 – June 2018

PHP　**Symfony**　**CodeIgniter**　**AWS**　**Ansible**　**MySQL**　**ElasticSearch**

- Responsible for maintenance of a legacy CodeIgniter codebase and gradually transitioning it (using a reversed proxy) to a modern, testable Symfony 4 application following the clean code practices.
- Maintained and improved the servers' configuration (Debian, Apache, nginx, PHP, MySQL, ElasticSearch, RabbitMQ, Salt) using Ansible.

- Worked on bringing the platform to the cloud using AWS and moving towards continued deployment and trunk based development.
- Implemented a centralised feature toggles service for a distributed system.
- Took part in the recruitment process for new hires for the company.

💼 Experience

Rocket Internet SE

🪪 Senior Software Engineer   📍 Berlin   📅 September 2015 – November 2017

PHP   **Symfony**   **Phalcon**   **MySQL**   **REST**   **API**   **AWS**   **Docker**   **Vagrant**

- Developed internal project skeleton "Skyrocket" used to quick-start new businesses – it included features like a CMS, cart, checkout flow, payments, RESTful API, admin panel, and statemachine.
- Collaborated with a team to build ventures such as Vendomo, Zinsgold, and Campsy, and provided support for teams creating Shopwings and Caterwings.
- Developed connectors for many external APIs, such as Podio, Cloudinary, XCOM, IDnow, Salesforce, and Bilendo.
- Implemented a complex price calculation + search algorithm for Campsy, preserving high optimization in terms of speed.
- Performed a seamless migration and refactoring an entire entire legacy Phalcon application to Symfony3 without affecting live processes or blocking development.
- Awarded Best Overall Hack prize at the Rocket Gaming Hackathon (Unity3d).

Visual Reporting.dk

🪪 Backend Developer   📍 Szczecin   📅 March 2015 – August 2015

JavaScript   **AngularJS**   **Node**   **Express**   **MongoDB**   **Selenium**

- Developed an interactive JavaScript solution for presenting and manipulating complex tree data.
- Developed a centralized message handler for monitoring and reacting to input from multiple clients.
- Developed an AngularJS module to validate and display a website's trustworthiness via an external provider.
- Created a web scraper and lead crawler based on checking the website's HTTP status, querying for DNS records and scraping screenshots using Selenium.
- Developed an internal sprint management tool, integrating with Redmine and Toggl.
- Created a tool for bulk management of phone call logs.

Dige Interactive Agency

🪪 Backend Developer   📍 Szczecin   📅 July 2013 – February 2015

PHP   **Symfony**   **Drupal**   **MySQL**   **REST**

- Maintained and developed multiple loyalty programs for the employees of Santander Consumer Bank. Functionalities included points management, shop, admin panel, mass SMS and email communication, bulk data import and export, etc.
- Executed a seamless transition to a new edition of the program.
- Developed a loyalty program for a restaurant chain, including a REST API for mobile apps.
- Supported and maintained a recruitment platform for the University of Szczecin.
- Supported maintenance of a couple of Drupal-based websites.

🎓 Education

West Pomeranian University of Technology in Szczecin

🪪 Engineer studies in the field computer science ⚲ Szczecin 🗓 2011 – 2015

- 4th place in Szczecin GameDev Talents competition, for a game written in OpenGL and C++.
- Thesis project: "A Web-based Implementation of an Interactive HDR Image Viewer". The back-end was written in C#. I implemented an algorithm that renders HDR images based on input parameters such as gamma and dynamic range. The front-end side is in HTML+Sass+JS as a custom jQuery extension. Intended for use by the faculty staff to educate students about how HDR images work.