Stan Guldemond

Full stack developer with a passion for creating easy to use, scalable, problem solving software

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- +31625405664
- Amsterdam, The Netherlands
- **LinkedIn**, **GitHub**, **GitLab**, **Stackshare**

Stack

- Python 3, **Flask**, **FastAPI**, **SQLAlchemy**, **aio-pika**, **typing**, **pytest**, PEP 8, virtual environments
- PostgreSQL, **PostGIS**, (materialized) views, indexes, **pgAdmin**
- Docker, docker-compose, Docker networks
- Linux, Ubuntu Desktop & Server, Git, bash, zsh, shell script, crontab
- GitLab CI/CD pipelines
- RabbitMQ, Nginx, Celery, VueJS, Node, VSCode, PyCharm, Git Flow

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Experience

2018-now: **Full Stack Developer** // CTO Innovatieteam, City of Amsterdam (Amsterdam, The Netherlands)

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Currently developing human centric tools, with a data driven approach, supporting
the maintenance of the public space in Amsterdam. Working in a self managed
multi disciplinary team with a focus to make things work, see 'Projects'.

Previous activities include:
- Designing + developing an Attribute Based Digital Identity prototype with
a focus on data ownership and zero knowledge proof as part of the European
Commission funded Decode program.
- Maintaining & expending our infrastructure capabilities using Gutter (see
Projects).
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2017: **Software Engineer** // Ceron IT Solutions (Vught, The Netherlands)

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- Developing and maintaining web application with Java EE backend
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- Implementing PrimeFaces framework frontend
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2016: **Student Assistent** // Fontys University of Applied Sciences (Eindhoven, The Netherlands)

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Assisting part-time students, between the ages of 25 and 50, twice a week
in the subject of object oriented programming focussing on the basics of programmi
in C# and software design.
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2016: **Teacher** // SintLucas (Eindhoven, The Netherlands)

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Part of my bachelor's degree in software engineering. I got to teach young
adults the basics of object oriented programming in C# and assist them in
various other skills.
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Education

2015-2019: **Bachelor's Degree, Software Engineering** // Fontys University of Applied Sciences (Eindhoven, The Netherlands)

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With software engineering I've learned to design software in an efficient
and maintainable way. Next to this main focus I've had a introduction into
teaching young adults and a introduction into designing software for mobile
devices.
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2011-2013: **Applied Psychology** // Fontys University of Applied Sciences (Eindhoven, The Netherlands)

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Learning about the working of the human mind, conversation techniques and
analysing social issues. Initiated a study group with classmates.
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2007-2011: **MBO BOL-4, Graphic Design** // Grafisch Lyceum Rotterdam (Rotterdam, The Netherlands)

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Graphic Design, Adobe Creative Suite, Desktop Publishing
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Projects

Object Detection Kit: Open source object recognition tool for municipalities to spot misplaced garbage in the streets and act on it quickly, even before citizens notice. My role and responsibilities:

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- Lead developer: Code reviews, architecture design, communication with stackholde
user tests, hiring new developers, documentation
- Development: Python, VueJS, PostgreSQL
- DevOps: GitLab CI, docker-compose, Ubuntu Server
- Hardware: Maintanence GPU servers for image recognition
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- **Project website**
- **Open source repository**
- **All ODK projects**

Decode Digital Identity: Prototype for attribute based digital identity utilizing the data on a NFC readable passport. The different elements of this project I created:

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- Passport scanner: Controlling NFC reader, camera and display using Python
- Mobile app: VueJS PWA
- Backend: Python Flask, Zenroom
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This project made money avaliable for continues research and development of the use of digital identity in the City of Amsterdam.

- **Me presenting the project in Turin, Italy**
- **GitHub repository**
- **Quick demo**
- **Decode Project**

Gutter: Python based API generator, with build in ETL tooling, real time analytics, message queuing and more utilizing the power of PostgreSQL.

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Build an analytics engine using Celery workers. It scheduled analytics jobs
(Python pandas) and persisted the output data in a database (PostgreSQL) then
automatically generated and deployed REST APIs (Flask). think Apache Airflow
x Google Firebase.
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- **Outdated repository**

Miscellaneous

Languages:

- Dutch (mother tongue)
- English (professional, daily speaker)
- Polish (beginner)

Hobbies

- Linux, coding useful tools for myself
- Climbing, bouldering, long distance cycling, yoga, camping
- Spirituality, mental health, films, music, reading, writing, drawing

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