

# Patrick Vogel

## Curriculum Vitae

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14-10-1995



### Field related jobs

- 2019 - 2023 **Software Engineer at See Tickets**, *Responsible for managing the ticketing system, developing new features, fixing bugs and guiding other software engineers. I worked every day in Python and was using libraries like Flask, SQLAlchemy, Django and Celery.*
- 2023 - Now **Senior Software Engineer at See Tickets**, *Apart from my responsibilities above, I also evaluate new applicants, guiding team mates, and I am more involved in architectural decisions.*

### Education

- 2017–2019 **Master Computing Science**, *University of Groningen*, Groningen.  
track: Software Engineering and Distributed Systems
- 2014–2017 **Bachelor Computing Science**, *University of Groningen*, Groningen.
- 2008–2014 **VWO**, *Kamerlingh Onnes College*, Groningen.

#### Master thesis

Title *Monitoring Cost and Waste in Cloud Computing*  
Supervisors Dr. V. Andrikopoulos, prof. dr. A. Lazovik

#### Research Internship

Title *Combining Execution Paths of Multiple Requests in Flask Monitoring Dashboard*  
Supervisor Dr. M.F. Lungu  
Final grade 9.5 / 10

#### Bachelor thesis

Title *A Dashboard for Automatic Monitoring Python Web Services*  
Supervisors Dr. M.F. Lungu, dr. V. Andrikopoulos  
Description A Monitoring Tool for the evolving performance of a Python Flask application  
Final grade 8.5 / 10

#### Experience

- 2018 **Teaching Assistant**, *University of Groningen*, Groningen.  
Teaching assistant for the course Software Engineering for a period of a full semester.
- 2015 **Teaching Assistant**, *University of Groningen*, Groningen.  
Teaching assistant for the course Imperative Programming for a period of a half semester.

## Open Source Projects

Flask Monitoring Dashboard My bachelor thesis project is publicly available on Github. Since it launched in 2017, it grew in popularity, with over 300,000 downloads and over 360 Github stars as of January 19, 2025. I'm still the main developer of this repository, although several other students and developers contributed to this. Github repo: <https://github.com/flask-dashboard/Flask-MonitoringDashboard>.

OpenAPI-Builder A Flask extension for automatically adding OpenAPI documentation to your Flask app. I started this open source project in November 2021, and has 3.000 downloads as of January 19, 2025. Github repo: <https://github.com/FlyingBird95/openapi-builder>.

## Programming Languages

Java	Expert	<i>Also expert on Scala</i>
Python	Expert	
Web-development	Expert	<i>Expert on HTML, CSS, JQuery, Javascript, Typescript and SQL.</i>
C	Intermediate	<i>Learned this in 2014, but I don't use it actively anymore.</i>
C#/C++	Intermediate	

## Database experience

SQL	Expert	<i>Expert on SQL, MySQL, PostgreSQL and SQLite.</i>
NoSQL	Expert	<i>Expert on Cassandra, Prometheus and intermediate on MongoDB.</i>

## Natural Languages

Dutch	Expert
English	Expert
German	Intermediate

## Publications

Paper	<i>A Low-Effort Analytics Platform for Visualizing Evolving Flask-Based Python Web Services – 2017 IEEE Working Conference on Software Visualization</i>
Bachelor thesis	<i>A Dashboard for Automatic Monitoring Python Web Services – 2017</i> <a href="http://fse.studenttheses.ub.rug.nl/15605/1/bsc-thesis3.pdf">http://fse.studenttheses.ub.rug.nl/15605/1/bsc-thesis3.pdf</a>
Master thesis	<i>Computing the Costs and Waste in Cloud Computing Monitoring – 2019</i> <a href="http://fse.studenttheses.ub.rug.nl/20735/1/ClassicThesis.pdf">fse.studenttheses.ub.rug.nl/20735/1/ClassicThesis.pdf</a>

## Interests

- Software Engineering Led a team of 8 people on a Software Engineering task, for a period of half a year.
- Software Architecture Familiar with the concepts of designing software components.
- Distributed Systems Familiar with technologies like Docker, Message Queuing software, Cloud computing, Load balancing and Apache Spark.

## References

- Paper <http://vissoft17.dcc.uchile.cl/program.html>
- Personal site <https://www.patrickvogel.nl/>