



REINIER VEGTER

SECURE ENGINEERING EXPERT
INTERESTING PROJECTS

PROFILE

Keen on working with people, creating elegant software and systems, drawing on a whiteboard and reading code.

Coming from a software engineering background, I'm best fitted in close contact with engineering teams, PO's and architects, to review, build, design, integrate and automate.

MY SKILLS

- Security Architecture Design
- Applied Cryptography
- Code and Design Review
- Software Engineering
- Threat modeling
- CI/CD Automation

MATCH FACTORS

- A fast moving environment
- Heavy software development
- Greenfield teams and processes
- Agile WoW
- Challenging tech

🕒 Resume ↗

HIGHLIGHTED PROJECTS

iDeal 2: Lead security engineer/architect

2020 - 2022

Payconiq International

In the last decade, iDeal became the major Dutch online payment infrastructure, facilitating SCT payments, but instant and guaranteed, locally defeating Paypal and VISA/Mastercard. Since 2021, iDeal (2.0) is being completely redesigned, including a whole new security architecture. In my role I am responsible for the technical security architecture designs, and the guidance and governance of its implementation.

This has everything to do with identity management (PKI, **JWKS**, 509), authentication (mTLS, JWS, JWT), **QR codes with signatures** and high scannability (phone camera), and besides that the 'regular' security engineer things like **CI/CD scanning**, **nightly data mining** (findings, **license issues**, MR scans, the use of supported **base-images** and patch-level metrics) using **Grafana**.

This is done in close collaboration with Currence (the formal owner of the iDeal brand and product) and the Dutch banks.

iDeal 2 ◦ Security architecture design ◦ Threat modeling (STRIDE) ◦ Security posture data mining

Security Maturity / Training course

2017 - 2019

ING Bank NL

Within ING I am responsible for the **Security Maturity Program**, the creation and refinement of its criteria, the trust-model (release/security deputies) and related privileges for the teams. This involves (co)running the **Security Champions program**, the training curriculum, testability of the projects and threat-modeling.

Regarding the curriculum, I am involved in the generation of **in-depth course materials** (defensive and offensive), the high-level training of onboarding colleagues, and the technical in-depth (secure coding) training of software engineers.

Maturity / BSIMM ◦ Security Champions ◦ Secure engineering training course

Lead developer security tooling

2017 - 2019

ING Bank NL

Being a full stack developer, I am responsible (tech lead) for the design and implementation of numerous security tooling projects, the most prominent being the **Security Finding Tracker** (FE/BE, Java/Spring, PostgreSQL, Redis, Polymer), and guiding the rest of the team on the development matters.

Other interesting stuff: **Runnable Happy-flows**, so that penetration testers can intercept a complete, legitimate and authenticated REST flow in e.g. Burp or Zap, which immensely decreases reconnaissance and setup time .

Finding tracker and follow up ◦ Burp automation ◦ Debian package maintenance



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ISO27001 ISMS / Certification

Finalist

2016 - 2017

With a small team I am responsible for the company wide **implementation of ISO 27001**. This involves the planning, creation and writing of policies, standards and processes on awareness and secure development.

This with the goal of guiding staff, engineering workforce and customers with the careful and aware processing of sensitive data and PII.

Information Security ◦ ISO 27001 ◦ ISMS

Drupal Flightcontrol

Finalist

2014 - 2017

Drupal Flightcontrol is an open source (Drupal distribution) platform for the full deployment, and maintenance of Drupal 7/8 projects (CI/CD). This also involves DTAP (and reverse) deployment, backup, restore, rollback and automated upgrades.

My role: architecture design, technical lead and maintainer.
For reference: <https://www.drupal.org/project/flightcontrol> .

CI/CD ◦ Automatic upgrades ◦ Backup management ◦ DTAP and rollback

Security review and penetration testing

Finalist / Maastricht University

2015 - 2016

This million Euro Corporate site project, including many integrations with external systems and a high availability setup (built on my architecture design), needed a thorough security review.

This involved a 5-day OWASP based penetration test and 4 days manual code review. One of my first, one of my most extensive reviews.

Penetration testing ◦ OWASP ◦ Secure Code Review ◦ Zap ◦ Skipfish

Some other projects

- Code review and penetration test on WCC Group (Drupal) projects
- Single Sign On consultancy project (3 months) for Scalda College (Drupal, SAML, AAD)
- Quality review (code, project, architecture) for Vluchtelingenwerk Nederland (4 days)
- Multi-instance content platform (Drupal, lead engineer), headless CMS, custom built integrations including SAP, Hodex, Tripolis, UM API, UM PPP, Elsevier PURE, ADFS/SAML.
- Utrecht University corporate website / content platform, including integration of ADFS/SAML.
- Infrastructure consultancy projects for CVZ
- Custom GNU/Linux training course (2 days) for VIBA
- Self built hosting platform, HA based on KVM (Debian), PF Sense firewalls, SNORT IPS/IDS, including IPSEC VPN's.