

# Coen de Groot

## Senior Python Developer

### KEY SKILLS

*Programming (20+ years)*  
*System analysis/design (6y)*  
*Python (5y)*

### WEB FRAMEWORKS

*Django (1.5y)*  
*Flask (1y)*  
*Zope (2y)*  
(Pyramid)

### PYTHON

*Python 2+3 (5y)*  
(numpy, pandas, matplotlib,  
Jupyter notebooks)  
(buildout, mock)

### DATABASES

*PostgreSQL (1y)*  
*MySQL (2y)*  
*SQLAlchemy (1y)*  
*ZODB (2y)*  
(alembic)

### TESTING

*Unit and integration testing*  
(pytest)  
(TDD)  
(Selenium, Jasmine)

### SUMMARY

Coen delivers clean, tested and well documented code, and believes in coding standards, iterating and constantly learning. He has strong analytical skills, and a problem solving and pragmatic attitude.

Good with people, Coen is used to collaborating with both technical and non-technical people. He works effectively within a distributed environment, within a small team or independently, and is comfortable owning individual deliverables.

He has recently worked on projects in renewable energy and energy efficiency, digital democracy, and the charity and training sectors.

### PROJECT AND CAREER HISTORY

FREELANCE PYTHON DEVELOPER, 2011 - Present

Key Projects:

- Delib, Sept '17 - July '18, remote/on-site  
**Web apps for democracy, misc internal projects**  
Coen worked on a number of different internal and client-facing applications, including moving a key internal admin system from a ZODB database to PostgreSQL/SQLAlchemy, and creating a system to analyse large log files.  
*Python, Zope, Pyramid, PostgreSQL, SQLAlchemy, pytest*
- Nomensa, May '17 - Sept '17  
**Charity website**  
Senior Django developer responsible for a charity website. Starting just before a major marketing drive to raise £millions, Coen learned the client's non-standard CMS, resolved some tricky design flaws and performed a full hand-over.  
*Python, Django, training, support*
- Which?, Sept '16 - Jan '17, remote/on-site  
**Database management web application**  
Senior Python Developer on a small team. Coen worked on a complex bitemporal database, with a variable number of attributes per record, multi-field validation and multiple derived values, using SQLAlchemy's flush and commit hooks. Done to a very high standard to facilitate extensibility and re-use  
*Python/Flask, Javascript, unit testing, Agile, SQLAlchemy*
- Guru Systems (London), Oct '15 - Mar '16, fully remote  
**District Energy Monitoring System**  
Coen created advanced access control, charts, Jasmine, Selenium and unit tests, and complex web pages using Angular, and improved the database structure  
*Python/Flask, Javascript/Angular, Selenium, RESTful API*

## Coen de Groot, Senior Python Developer (Key projects, continued)

### FRONT END

*Javascript (3y)*

*HTML (6y)*

*CSS (1y)*

(Angular, jQuery)

(HighCharts)

(Bootstrap)

### OS, SYSADMIN

*Linux (5y+)*

*Linux Mint, CentOS, Fedora*

(AWS)

(nginx, Apache)

### VERSION CONTROL

*git (3y)*

*GitHub, BitBucket*

*Subversion (2y)*

### API, INTEGRATION

(Stripe, WorldPay and PayPal  
integration)

(Flask-REST, Flask-RESTful)

### SOFT SKILLS

*Software support (4y)*

*Project Management (2y)*

*Team Leading (2y)*

*Training (2y)*

- **Ra Power Management (San Francisco)**  
Sept '14 - May '15, remote freelance project  
**Asset and Investment Management Platform**  
A high pressure project, Coen created a demo site to track \$100millions of investments in solar panels, generate forecasts and compare them against actuals. The site generated a lot of interest and praise in the industry, and allowed the client to achieve their first round of funding.  
**Django, Python, Javascript, jQuery, Bootstrap, Highcharts**

- **Academy of Executive Coaching (London)**  
Sept '11 - March '14, remote freelance project  
**Technical Project Manager, Systems Migration**  
Coen managed the migration from an internal MS Access booking and CRM system to an online service. This included requirement analysis and migration of a seriously degraded database. Meticulous preparations meant a smooth transition and saved the client months of bespoke work.  
**Python, SQL, Requirement Analysis, Project Management**

### FREELANCE SOFTWARE AND WEBSITE DEVELOPER

1997 - 2011, Part-time (50%)

Projects:

- **Online community website and back end systems**  
Coen developed a membership community system with email discussion list, message archive, text and HTML digests, classified ads, profiles, events calendar and online payments.  
**Python, Zope, HTML, Linux sysadmin**
- **Award winning dynamic website**  
Coen created a pioneering dynamic website for an event management company  
**Javascript, ASP, HTML**
- **Website design and build. 20+ websites for coaches and consultants, mostly hand crafted, some based on WordPress**  
**HTML**
- **Data driven websites for own services**  
Coen created a number of data driven websites in the early '00s, one with nearly 100 articles, static HTML generated from an Access database, and a system for sending out automatic reminder emails, another with newsletters, book reviews, and a webinar registration system and recordings archive.  
**Python, Zope, HTML**

## Coen de Groot, Senior Python Developer

### EDUCATION

1982 - 1986, Computer  
Science and Mathematics,  
Leiden University,  
The Netherlands

### LANGUAGES

Bilingual English/Dutch  
Good command of French

### CONTACT DETAILS

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[www.compassmentis.com](http://www.compassmentis.com)

[github.com/CompassMentis](https://github.com/CompassMentis)

### Career History:

#### SENIOR PROGRAMMER ANALYST

Fraser Williams, 1993 - 1997

- Systems Analysis and Design of end-user systems.
- Team Leader of development projects.
- Project Manager for support projects, looking after customers' safety-critical products.

#### SOFTWARE SUPPORT AND DEVELOPMENT MANAGER

HelpDesk Ltd, 1989 - 1992

- Management of third party support for 1000 users.

#### SOFTWARE SUPPORT ENGINEER

Shell Head Office, 1985 - 1988

Member of a small team supporting 2000 end users

#### SOFTWARE DEVELOPER, TRAINER AND SUPPORT

Infotheek, 1983 - 1985