Summary of Open Source Software

Operating Systems

- Physical servers: RHEL / CentOS 7 https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/
- Hypervisors: KVM https://en.wikipedia.org/wiki/Kernel-based_Virtual_Machine
- Virtual Machines: Ubuntu Linux https://www.ubuntu.com/desktop

Databases, data transformation and analysis

- Pentaho Kettle ETL-tool http://www.pentaho.com/product/data-integration
- PostgreSQL https://www.postgresql.org/docs/9.6/static/index.html
- Relational data modelling http://software.sqlpower.ca/page/architect
- Cloudera Hadoop https://www.cloudera.com/documentation.html
- R language (for statistical computing) https://www.r-project.org/
- Python 3 (for scientific computing and scripting) https://www.python.org/
- Unix Shell (for process automation) https://www.gnu.org/software/bash/manual/
- Machine learning: Weka https://www.cs.waikato.ac.nz/ml/weka/

Version control, documentation and backups

- Version control: Git https://git-scm.com/
- Wiki pages & notes: Markdown https://en.wikipedia.org/wiki/Markdown
- Kanban board: Wekan https://wekan.github.io/
- Backups: Cron & rsync https://en.wikipedia.org/wiki/Cron, https://en.wikipedia.org/wiki/Rsync

Publishing and Office

- Vector graphics: Inkscape https://inkscape.org/en/
- Image manipulation: Gimp https://www.gimp.org/
- Scientific publishing: LaTeX https://en.wikipedia.org/wiki/LaTeX

Remote Access

- OpenSSH https://en.wikipedia.org/wiki/OpenSSH
- X2Go https://wiki.x2go.org/doku.php
- Apache Guacamole (to be installed...) https://guacamole.apache.org/

Web-based User Interfaces

- Front-end layout: Twitter Bootstrap https://getbootstrap.com/
- Front-end widgets: jQuery and jQuery UI https://jquery.com/
- Interactive graphics: D3.js https://d3js.org/
- Back-end logic: Python/Flask http://flask.pocoo.org/