# Thomas **Hybel**

SOFTWARE DEVELOPER

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## Skills

| | |
|---|---|
| **Programming languages** | Python, C, C++, Java, PHP, SQL, Javascript, HTML, CSS, Bash, x86 & ARM assembly, SML, Solidity, et al. |
| **Other Software** | GNU/Linux, Vim, Git, AWS, Docker |
| **Natural languages** | English (fluent), Danish (native), Spanish (intermediate) |

## Education

**Aarhus University**                                                                                 *Aarhus, Denmark*
BACHELOR'S AND MASTER'S DEGREE IN COMPUTER SCIENCE                                                     *2013 - 2018*

- Specialized in programming languages, program analysis, and cryptography
- Implemented a compiler from Tiger to x86 in SML (bachelor project)
- Designed and implemented DSol, a decompiler for Ethereum smart contracts (master thesis)
- Implemented an x86 operating system from scratch in C

## Experience

**PythonPrinciples.com**                                                                              *Vejle, Denmark*
DEVELOPER AND OWNER                                                                                    *2019-PRESENT*

- Created PythonPrinciples.com, an online learning platform that helps beginners learn Python
- The platform validates code exercise solutions and gives tailored feedback, allowing hands-on learning
- Full-stack development of the entire system in Python, PHP, SQL, JS, CSS, HTML
- Implemented solution validation via syntax analysis and secure interpretation

**MyFishPoster**                                                                                      *Vejle, Denmark*
SOFTWARE CONSULTANT                                                                                    *2019*

- Developed back-end system written in Python that processes orders and generates graphic posters
- Wrote API interaction with several printing companies
- Designed a custom front-end for improved UX

**Netcompany**                                                                                        *Copenhagen, Denmark*
SOFTWARE CONSULTANT                                                                                    *2018*

- Worked under DevOps department to automate system administration tasks
- Set up AWS auto-scaling environment for AULA, Denmark's school platform

**Aarhus University**                                                                                 *Aarhus, Denmark*
STUDENT PROGRAMMER                                                                                     *2014*

- Implemented standard library in C++ for the programming language RASMUS
- Ensured that standard library functions scaled to large datasets by picking appropriate algorithms

**TravelMarket**                                                                                      *Vejle, Denmark*
WEB DEVELOPER                                                                                          *2013-2014*

- Developed large parts of the front end for BedreBilist.dk, a website for taking theoretical driving lessons
- Performed security analysis of main company website, fixing multiple critical vulnerabilities

## Extracurricular Activity

**Capture The Flag security competitions**                                                            *Various countries, Europe*
CORE MEMBER OF TEAM TASTELESS                                                                          *2011 - PRESENT*

- Solved challenging security problems in hundreds of CTF competitions
- Focused on binary exploitation and reverse engineering
- Team ranked #8 globally in 2016
- Attended the 0CTF finals in Shanghai in 2016
- Attended the DEF CON world finals in Las Vegas in 2017