Ing. Jelle Meeus

Software Engineer

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🌐 jellemeeus.github.io 🔠 Dutch C2; English C1; French B1   🚗 Rijbewijs B

EDUCATION

Master in de industriële wetenschappen, elektronica-ICT

Katholieke Universiteit Leuven

📅 2018 📍 Campus De Nayer

MASTER THESIS

Continuous unobtrusive user authentication using gait for wearable devices, utilizing machine learning algorithms

Onespan

📅 2018 📍 Brussel (Strombeek-Bever)

- Researched gait-based authentication method amidst growing interest in non-explicit user input.
- Enhanced an existing barebone implementation featuring an **Android** wearable app for data recording and a **Python** server app for offline processing.
- Integrated human activity and gait recognition systems, employing traditional machine learning models and a novel, fast, and accurate feature extraction technique.
- Resulted in a seamless, continuous gait-based authentication system that enables offline data capture, server-based training, and real-time evaluation on a wearable.

EXPERIENCE

Software Engineer

Sioux Embedded Systems

📅 November 2018 – February 2019

- Wrote essential tools to facilitate seamless transition for a customer migrating from Perforce Version Control System (VCS) to **Git**.
- Implemented existing and new features using **Python** and GitLab API, ensuring compatibility and addressing in-house developer requirements.
- Set up R&D internal website to provide an overview of projects that updates nightly

SOFTSKILLS

| Learning Potential | Team Work | Agile | Organization |

| Flexibility | MultiTasking | Professionalism | Scrum |

| Eye for detail | Responsibility | Work Under Pressure |

PROJECTS

8051 microcontroller floating-point library (Assembly)
implementation of four operations
(+, -, *, /) for two floating point numbers in Assembly without MUL/DIV

- -

Drawing Cards (JS, React)
web app hosted on github pages. draw one or multiple cards, shuffle, flip over the deck.

- -

Azerothcore (C++, SQL, Lua)
open source contributor, submitting pull requests addressing bugs in their core (C++) and database (SQL)

- -

Video compilations (Python, JS, Electron, APIs, SQL)
Create video compilations of twitch clips and upload to Youtube with ease. compile with cli or gui interface

- -

Vocabulary (Python, Jupyter)
Easy-to-read and printable vocabulary lists for commonly used English words. The lists cover spelling, meaning, example usage, and lexical spelling

- -

Loot addon (Lua)
coupled existing loot distribution addons to allow parallel auctioning satisfying in-house demands

TECHNICAL SKILLS

| Python +++ | Git +++ | Java ++ |

| VIM ++ | Javascript ++ | React ++ |

| CI/CD ++ | PL/SQL ++ | C/C++ ++ |

| 8051 ASM ++ | C# ++ | Docker + |