FILIP BUNKENS

AI-NATIVE DEVELOPER

RESPONSIBLE DISCLOSURE: LLM PROMPT INJECTION VULNERABILITY

CRITICAL

Identification and reporting of a critical prompt injection vulnerability in a leading Applicant Tracking System (ATS) platform. Managed through an official Vulnerability Disclosure Program (VDP) and reported to the Centre for Cybersecurity Belgium (CCB). The disclosure helped secure automated recruitment workflows for thousands of organizations worldwide.

EXPERTISE

"I don't just 'add AI' to applications; I architect systems where AI agents, LLMs, and vector databases are core components."

- **AI-First Orchestration:** Building complex software systems where AI agents and LLMs handle core logic and data processing.
- **Spec-Driven AI Development:** Using high-precision specifications to leverage AI coding agents for rapid, resilient development.
- **RAG & Vector Architectures:** Implementing Retrieval-Augmented Generation to ground AI models in private organizational data.
- **Red-Teaming & Security:** Testing LLM integrations for prompt injection and implementing robust guardrails.
- **Autonomous Workflows:** Designing systems that automate complex, multi-step business processes through intelligent agent chains.

CONTACT

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CORE SKILLS

- AI-Native System Architecture
- RAG & Vector Databases (Pinecone, PocketBase, SQLite)
- Spec-Driven Development (Claude Code, AI Agent Orchestration)
- Full-stack Engineering (Node.js, TypeScript, Python, Go)
- LLM Security & Prompt Injection Analysis
- Cost-Aware AI Implementation (Token optimization & caching)

LANGUAGES

DUTCH (NATIVE SPEAKER)

ENGLISH (FULL PROFESSIONAL)

FRENCH (PROFESSIONAL WORKING)

PROFESSIONAL EXPERIENCE

AI-NATIVE & PRODUCT INNOVATION

INDEPENDENT AI RESEARCH & DEVELOPMENT

January 2024 – present

INDEPENDENT AI RESEARCH & DEVELOPMENT | BELGIË / REMOTE

OWNER (AREWEINLOCKDOWN.COM)

March 2020 – May 2021

AREWEINLOCKDOWN.COM | WERELDWIJD

- **Development:** Independently developed a tracker that mapped government COVID-19 measures worldwide.
- **Data Mapping:** Analyzing diverse global data sources and translating them into a uniform, logical data model for the tracker.
- **Open Source:** Project source code and documentation are available on GitHub.

CEO / SPOKESPERSON

April 2018 – September 2019

REDEN COIN | WERELDWIJD

- **Leadership:** Elected as CEO to revitalize an abandoned cryptocurrency project.
- **Risk Management:** Establishing 'good practice' standards for project launches to mitigate investment risks.
- **Intermediary:** Acting as a trusted third party between investors and founders for transparent fund management.
- **Audit & Analysis:** Thorough vetting of the existing codebase and project structure to map risks and opportunities for investors.

CONTACT CENTER AGENT

January 2017 – December 2017

HARVEST COMMUNICATION CENTRES | LEUVEN, BELGIË

- **Customer Service:** Provided support to four different clients, including 24-hour weekend shifts.

TECHNICAL & COMMERCIAL SUPPORT (TELENET)

September 2003 – May 2004

IP GLOBALNET | BELGIË

- **Telenet Support:** Full handling of technical and commercial support for Telenet customers (B2B & Residential).
- **Specialization:** Guidance on complex Wi-Fi installation procedures and professional email support.

DIGITAL ARCHITECTURE & ENGINEERING

STEM FACILITATOR & ROBOTICS MENTOR (FRENCH-SPEAKING)

February 2025 – June 2025

123CODE | WAVRE

- **French-language Guidance:** Providing technical lessons in French for primary school children (école primaire).
- **Robotics & Arduino:** Inspiring children and teaching the basics of logical thinking through hands-on projects with Arduino, from assembly to coding.
- **Pedagogical Approach:** Translating complex concepts such as sensors, motors, and variables into an understandable level for young French-speaking students.
- **Problem Solving:** Guiding the debugging process, stimulating students to find their own mechanical and software solutions.

FRONTEND DEVELOPER

May 2007 – September 2008

STATIK | BELGIË

- **Web Development:** Focused on development with PHP, AJAX, and CakePHP.
- **Projects:** Contributed to platforms for clients including Max Havelaar, Het Depot, Stuk, and Rivierenhof.
- **Front-end:** Development of templates for Drupal, WordPress, and custom CMS systems.

FULL STACK DEVELOPER

February 2007 – May 2007

YAPPA | BELGIË

- Full-stack: Developing websites in PHP_XHTML, and CSS.

PHP DEVELOPER

June 2006 – February 2007

KEYS | BELGIË

- Software Development: Back-office development and hosting support.

STRATEGIC LEADERSHIP & ENTREPRENEURSHIP

E-COMMERCE RESELLER & TECHNICAL CURATOR

June 2020 – present

THEBEARD | BELGIË / ONLINE

- **Sourcing & Repair:** Identifying and technically revising or repairing second-hand products for resale on international platforms.
- **Quality Control:** Performing technical inspections to ensure the functional integrity of goods for platforms such as Etsy, eBay, and Vinted.
- **Operational Management:** Full chain management from procurement and refurbishing to international logistics and customer service.
- **Market Analysis:** Using data-driven pricing models and trend analysis to optimize procurement strategies on international platforms.

BRAND DEVELOPMENT & COMMUNITY LEAD (CO-FOUNDER)

February 2019 – April 2022

ANNICK & THE BEARD | JODOIGNE / BELGIË

- **Joint Entrepreneurship:** Built a unique branding studio as life partners and co-founders, focused on authentic connection.
- **Community Building:** Created loyal communities for SME's consisting of customers who acted as ambassadors to organically spread the company's vision.
- **Ambassador Strategy:** Developed strategies focused on transforming a customer base into a tight-knit, loyal foundation with a shared mission.
- **Grassroots Identity:** Realized maximum impact with limited budgets by leveraging human values and visual storytelling.

CO-FOUNDER

June 2020 – May 2021

MY COMFORT MASK | WERELDWIJD

- **Product Development:** Full lifecycle of an innovative 'print on demand' concept, from initial prototype to global sales.
- **Workflow Design:** Designing and optimizing the digital chain: from vectorized customer input to automated production control.
- **Stakeholder Management:** Managing the entire chain, including external production partners and international logistics.

PHOTOGRAPHER

July 2007 – September 2019

THEBEARD.BE | JODOIGNE, BELGIË

- **Commercial Photography:** Specialized in capturing large-scale events, international congresses, and promotional content.
- **Advertising Campaigns:** Visual execution of major advertising campaigns in collaboration with agencies for clients including *Startups.be, IMEC, Hack Belgium, and Scania.*
- **High-level Clients:** Trusted partner for organizations such as *Startups.be, IMEC, Hack Belgium, Pfizer and Scania.*
- **Strategic Consulting:** Consultancy regarding visual identity and brand positioning for corporate clients.

EDUCATION

APPLIED INFORMATICS

Rega KHL, *2002-2003*

BIO-ENGINEER

KU Leuven, *2000-2002*

MATHEMATICS - SCIENCES

Don Boscocollege Hechtel, *1992 – 2000*

PROJECTS

KABAAL – FULL-STACK AUDIO DASHBOARD SYSTEM

RASPBERRY PI, SQLITE/PLUS, NODE.JS, CRON, DOCKER

A scalable soundboard platform with a "Tron-inspired" aesthetic. Users manage personalized 'audio grids' via a desktop 'Manage Mode' and a mobile-optimized interface.

VIEW PROJECT

THE CONSTRUCT — OPEN SOURCE CV ENGINE

NODE.JS, AUTH, VERSIONING, CHROMIUM AI, DOCKER

The engine that powers this very site. An open-source, multi-persona CV portfolio platform with AI-powered Q&A. Serves tailored résumés per employer using tag-based filtering, semantic RAG chat, PDF export, and multi-language support. Published on GitHub as cv-construct.

VIEW PROJECT

THE FIXER CASE: OFFLINE PHOTO-PIPELINE (NATIONAL LOTTERY)

PYTHON, NODE.JS, RASPBERRY PI, WIFI-CAMERA, DATA

A fully autonomous, battery-powered pipeline built for major festivals. WiFi-connected cameras feed a local server that auto-processes images, displays them on tablets, and delivers them via local SMTP—zero internet, zero mains power.

HOME-LAB AI INFRASTRUCTURE

OLLAMA, OPENWEBUI, DOCKER

Configuration of a local, home-lab LLM environment on a GTX 1060 (3GB VRAM). Optimized through quantization to make high-performance models usable on limited hardware.

TRUSTUP RENOVATION SCOPING ASSISTANT — AI-NATIVE SPECIFICATIONS

CLAUDE CODE, AI AGENT ORCHESTRATION, NICHE ANALYSIS, API-NATIVE

A specification package designed to orchestrate AI coding agents in building a resilient, SaaS-ready module. Demonstrates strict Spec Driven Development methodology.

VIEW PROJECT

AUTONOMOUS MICRO-AGENCY MVP (CAPSLOCK)

TYPESCRIPT, BEASY, CHROMIC 3.1 FLASH, NODE.JS

An autonomous performance marketing analysis tool. Automates the ingestion of Google Ads data, implements WoW aggregation logic, and generates AI-enhanced performance briefs using Gemini 3.1 Flash.

VIEW PROJECT