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EXPERIENCE	<p> <b>PerfSec.AI, ComplyHub.dev – CEO &amp; Co-founder</b> 2024 – present</p> <p>CEO and co-founder of <a href="#">PerfSec.AI</a> and <a href="#">ComplyHub.dev</a>. Responsible for company direction and for some of the technical designs and decisions. Our mission is to provide secure, well-performing environments in compliance with EU and US regulations. We are providing secured, vetted, analyzed, and trusted software to our customers.</p> <p><b>Contractor</b> 2023 – present</p> <p>Contractor at <a href="#">CloudLinux</a> – helped with Python dependency management, Python dependency auditability, and incorporating security checks to software components.</p> <p> <b>Datadog</b> 2022 – 2023</p> <ul style="list-style-type: none"> <li><b>Senior Software Engineer – Software Integrity &amp; Trust</b></li> </ul> <p>Participated in the initial database design, and implemented core parts of the SBOM Hub – an internal service for SBOM aggregation. Participated in <a href="#">TUF</a>, <a href="#">in-toto</a>, <a href="#">SLSA</a>, <a href="#">GUAC</a> upstream meetings, <a href="#">OpenSSF</a> community meetings and applied related practices internally. Tested software related to Datadog’s Python distributions that use <a href="#">TUF</a>. Designed and implemented a new Windows Code Signing process that uses AWS KMS. Authored tools such as <a href="#">pipctl</a>, <a href="#">Yorkshire</a>. Helped to evaluate third-party vendors and their suitability for Datadog products.</p> <p> <b>Red Hat</b> 2013 – 2022</p> <ul style="list-style-type: none"> <li><b>Senior Software Engineer – Emerging Tech, Office of the CTO</b></li> </ul> <p>Implementation of <a href="#">the Thoth cloud-based Python resolver based on reinforcement learning</a>, author of <a href="#">micropipenv</a>. Interviewed, guided, and led new engineers and interns; provided technical guidance on theses for University students. Led internal process for publishing and releasing Python packages on a <a href="#">company-wide Python package index</a> for internal and external use; co-authored or authored 16 patent proposals; <a href="#">five of which are active patents</a>, <a href="#">three are pending</a>, designed and implemented most of <a href="#">Dependency Monkey</a> and <a href="#">Thoth backend</a>. Presented work at conferences including <a href="#">NeurIPS 2020</a> or <a href="#">PyCon US</a>. Collaborated with IBM Research, participated in Google’s <a href="#">TensorFlow</a> SIG build, and worked within Python upstream communities.</p> <ul style="list-style-type: none"> <li><b>Software Engineer – OpenShift.io team, AI team, Office of the CTO</b></li> </ul> <p>Implementation of Python bots for managing application dependencies; analysis of packages in various ecosystems, mostly Java, JavaScript, Python, and Golang. Implementation of <a href="#">Selinon</a>, which extends Celery with task flows for distributed computing. Selinon was run in OpenShift to gather raw data and compute additional dependency-related metrics in AWS.</p> <ul style="list-style-type: none"> <li><b>Associate Software Engineer – Platform team</b></li> </ul> <p>Work related to RPM packaging of Golang projects, fixing bugs in low-level tools such as <code>less</code> or <code>tcsh</code>. Author of the <a href="#">AF_KTLS Linux kernel module</a> providing the TLS/DTLS socket to user-space. The work was further extended through cooperation with Facebook and <a href="#">AF_KTLS</a> was used as a base for <a href="#">the Linux kernel TLS socket</a>, starting with vanilla Linux version 4.13 onwards. Module excels when transmitting data over TLS/DTLS where zero-copy optimizations can be applied.</p> <ul style="list-style-type: none"> <li><b>Engineering intern – Platform team</b></li> </ul> <p>Developer experience team, helping develop the <a href="#">gofed</a> tool for packaging Golang projects to Fedora.</p> <p> <b>AVG</b> 2012 – 2013</p> <ul style="list-style-type: none"> <li><b>Retargetable decompiler developer (RetDec)</b></li> </ul> <p>Implementation of C/C++ LLVM module in <a href="#">RetDec</a>, focused on reconstruction of code blocks that are optimized by compilers (instruction idioms, optimization of standard C/C++ library functions) on different architectures (Intel, MIPS, ARM). The module outperformed the industry standard HexRays decompiler in reconstruction of optimized code. The work is still used in <a href="#">the open-source version of RetDec</a>. Published related research papers in <a href="#">ComSIS</a> and <a href="#">IEEE</a> magazines. The module helped with malware analyses.</p>	
EDUCATION	<p><b>Brno University of Technology – Master of Information Security</b> 2013 – 2016</p> <p>Ranked among the top 3 students in the study program.</p> <p>Master thesis: <a href="#">Linux VPN Performance and Optimization</a>; final grade: A</p> <p><b>Brno University of Technology</b> 2010 – 2013</p> <p>Ranked among the top 12 students in the study program.</p> <p>Bachelor thesis: <i>Reconstruction of Instruction Idioms in a Retargetable Decompiler</i>; final grade: A</p>	
HOBBIES	Football, road cycling, mountains, psychology, self-development.	