Lucas Boppre Niehues

Curriculum Vitae - 2017-01

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Education

2007–2008	**Certificate Program in Information Technology**, *SOCIESC*. Hands on experience with computer hardware, networks and programming, attended during high school.
2009–2013	**Bachelor of Computer Science**, *Universidade Federal de Santa Catarina*. Theoretical and applied computer science. Final project was an alternative code editor.
2014–now	**Master's degree in Computer Science**, *Universidade Federal de Santa Catarina*. Focus on finite field math for security, public key infrastructure, certificates and protocols. Advanced classes on statistics. Thesis on optimizing binary field arithmetic. Proposal of web authentication protocol.
2015	**Visit to Carleton University**, *Ottawa, Canada*. Two month long visit to work with other researchers and develop master's thesis.

Work

2009–2011	**Software developer**, *Biblical.com.br*. Sole programmer and technical person at game startup, using Adobe Flash and PHP. ○ Wrote main website interface. ○ Coded dozens of small games for children. ○ Built and performed maintenance for online game with thousands of players.
2011–2012	**Freelancer**. Coding or fixing various pieces of software, mostly games and other interactive media.

2012–2016	**Computer Security Lab**, *LabSEC*, Universidade Federal de Santa Catarina.
	 Writing Public Key Infrastructure software for Brazilian government, mostly in Java.
	 ○ Contributed during creation of online Certificate and Registration Authority.
	   – Distributed system running three distinct modules, in separate servers, at different security contexts.
	   – Operational tasks accessed via web interface and RESTful protocol.
	   – Secure certificate issuance using binary CMC protocol (RFC 5272).
	 ○ Managed *Attribute Certificate* project, writing software for issuing, managing and revoking certificates of this type.

2016–now	**Deutsche Bank security engineering internship**. Working on internal tools for monitoring and authentication, and miscellaneous minor tasks.

Tools

Proficient	**Python, Java, JavaScript, C**	*Used as main languages for over a hundred professional and personal projects.*
Experienced	**Go, PHP, HTML, CSS**	*Used regularly for personal projects, or sporadically for professional ones.*
Environment	**Linux, Bash and Vim**	*Preferred tools, but willing to adapt.*