SEPTIMIU-FABIAN MARE
Software Engineer, PhD

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Timisoara, Romania

OBJECTIVE

To work on developing tomorrow's next digital security systems.

AREAS OF EXPERTISE

- Digital security
- Cryptography/cryptanalysis
- Steganography/steganalysis
- Computer vision
- Software architecture
- API/Framework design
- Automatisation software

SKILLS

- Leadership skills
- Business development
- Project management
- Analytical thinking
- Algorithm design
- Problem solving
- Ability to work under stress
- Communication skills
- Good presentation skills

QUALITIES

- Goals oriented
- Highly organised
- Self-directed and passionate
- Attention to detail
- Meticulous
- An eye for design
- Good sense of humour

LANGUAGES

english / german / romanian

SUMMARY

A versatile software engineer and research professional with a PhD in digital security with over 10 years of comprehensive experience in software development, application development including UI/UX, system architecture, automatisation and monitoring solutions. Passionate about researching new algorithms in the fields of cryptography and digital steganography with a focus on optimisation, architecture and design. Real-world experience in:
- Complex software varying from user-oriented software to complete industry automatisation solutions (ERP connected)
- Cryptography/Cryptanalysis, Steganography/Steganalysis
- Software Development in Swift, C/C++, Delphi, Java and others
- Web Development in PHP, JavaScript, HTML, CSSa and others

WORK HISTORY

2009 - present
FEBRUARY

CEO / Founder
GORDIANLOGIC SRL

- Outsourcing company focused on delivering complete software solutions for industry automatisation
- Wide area of expertise: system architecture, application design and implementation, UI/UX, ERP, CRM, DB, mobile applications, web applications, automatised processes, firmware design and implementation

2007 - present
JUNE

Project manager / Senior Software Engineer
BOSCHE GmbH

- Involved in developing and managing software solutions for use in industrial applications, varying from simple client oriented touch-panel applications to complex machinery control and monitoring used worldwide

EDUCATION

2009 - 2012
OCTOBER   NOVEMBER

PhD in Digital Security
"Politehnica" University of Timisoara

- Researched Steganography and Cryptography
- Invented 4 steganographic algorithms
- Architected a secure communication system
- Published 5 articles as main author (4 IEEE and 1 ISI)
- Defended the thesis "Advanced steganographic algorithms and architectures" in November 2012
- The title of Doctor of Philosophy awarded in November 2012

2004 - 2009
OCTOBER   JUNE

Software Engineer
"Politehnica" University of Timisoara

- Worked on various algorithms for computerised vision
- Researched AES vulnerabilities against side-channel, polynomial, aliasing and statistical attacks
- Implemented a GF2 analysis system for attacking AES
- Started researching Steganography and Computerised Human vision, developed first steganographic algorithm
- The title of Software Engineer awarded in 2009