

FRANS BLAUW

SOFTWARE ENGINEERING LECTURER

 Online: <https://fransblauw.com>

 GitHub: FransBlauw

PROFILE

Full Name

Frans Frederik Blauw

Date of Birth

2 February

Nationalities

Netherlands

South Africa

Country of Residence

South Africa

Professional Membership

Member of the Chartered Institute for I.T. (MBCS)

AWARDS

Faculty of Science Teaching and Learning Excellence

2019

SKILLS

Training & Instruction

Curriculum development
Research & innovation

Interpersonal

Presentation skills
Dispute resolution

Management

Project coordination
Course oversight

Software Engineering

Object-oriented design
Algorithm design
Business analysis
User experience (UX) design
Data structures
Agile (Scrum)
Test-driven development
Version control (Git + GitHub)

Information Security

Secure software development
Identity management
Digital forensics
Social cybersecurity
Cryptography

LANGUAGES

Native

English
Afrikaans

Conversational

Dutch

Blazing a trail through three degrees at the University of Johannesburg, I pursued all things nerdy! After graduating, I paid no attention to the call of the industry. Instead, I now enjoy the adventure of lecturing third and fourth year students.



EXPERIENCE

Software Engineering Lecturer

University of Johannesburg, Johannesburg, South Africa

Primarily required to design, develop and present academic courses at a university level that meet current trends and industry requirements. It is expected of me to keep my skills and knowledge of modern technologies up to date to transfer it to student groups ranging from 20 to 200. My main subject areas and associated competencies are as follows:

Software Engineering (year 3)

- Software life-cycles (incl. agile & traditional development)
- Requirements elicitation & client management
- Architectural design & design patterns
- Secure software development & information security

Ethical Hacking and Penetration Testing (year 4)

- Footprinting & enumeration, social engineering & physical security
- Web application security
- Network- & software-based threats detection & evasion techniques
- IoT security

Short Courses (certificate level)

- Introduction to Cryptography
- Introduction to Digital Forensics

Project Team Coaching and Coordination

Personally I supervise 3-5 software design and development project teams in year 3. Responsible for the overall coordination of 30+ teams and a rotation of mentors. These four-person teams are coached to acquire practical skills including:

- Business analysis & use case development
- Data handling, manipulation, presentation, database design and implementation
- Component & architecture design, implementation and deployment
- User experience design & implementation
- Stakeholder relationship and presentation skills
- Version control (Git + GitHub)

Stakeholder Management

Partially responsible for the management of stakeholders and industry partners, which include solicitation of sponsorships and coordination of assessors.

Jointly responsible for the organisation of an annual project exhibition and competition composed of 50+ software projects and 50+ stakeholders.

Assistant Lecturer

University of Johannesburg, Johannesburg, South Africa

Full teaching portfolio available upon request

2014 - present

2012




RESEARCH AREAS

- Software Engineering in Education
- Information Security in Education
- Cyber and Information Security
- Identity Management

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QUALIFICATIONS

2020

PhD Computer Science (Information Security)

Promoter: Prof SH (Basie) von Solms, PhD, FBCS CITP (WEF Global Future Council)

University of Johannesburg, Johannesburg, South Africa

Investigation of a system prototype to form a digital identity model of a user's personally identifiable information by gathering identity fragments scattered across the Internet with the aim of giving users control over their own data and the entities that make use of it.

2015

MSc Information Technology (Information Security)

(cum laude)

University of Johannesburg, Johannesburg, South Africa

Design and development of a prototype model to incorporate multiple factors of authentication on a per-transaction basis for cyber applications such as online banking systems.

2010

BSc (Hons) Information Technology (Computer Science and Software Engineering)

(cum laude)

University of Johannesburg, Johannesburg, South Africa

2009

BSc Information Technology

University of Johannesburg, Johannesburg, South Africa

2007



SELECTED PUBLICATIONS

2020

- Blauw F.F. (2020) "Enlivening Port Scanning Exercises with Capture the Flag and Deduction." In: Drevin L., Von Solms S., Theocharidou M. (eds) Information Security Education. Information Security in Action. WISE 2020. IFIP Advances in Information and Communication Technology, vol 579. Springer, Cham.
- Leung W.S. & Blauw F.F. (2020) "An Augmented Reality Approach to Delivering a Connected Digital Forensics Training Experience." In: Kim K., Kim H.Y. (eds) Information Science and Applications. Lecture Notes in Electrical Engineering, vol 621. Springer, Singapore.
- Blauw, F.F. (2018). "The Use of Git as Version Control in the South African Software Engineering Classroom". IST-Africa 2018 Conference Proceedings, 2018, Gabarone, Botswana, pp. 1-9. IIMC International Information Management Corporation.
- Blauw, F.F. (2018). "SecuSeal: Preventing Cybercrime Susceptibility using Browser-Specific Warning Badges". ECCWS 2018 17th European Conference on Cyber Warfare and Security.
- Blauw, F.F. & von Solms, S.H. (2018). "Towards Collecting and Linking Personal Information for Complete Personal Online Identity Modelling". Human-Computer Interaction. Theories, Methods, and Human Issues; Part of the Lecture Notes in Computer Science book series (LNCS, volume 10901). Springer.
- Blauw, F.F. & Leung, W.S. (2018). "ForenCity: A Playground for Self-Motivated Learning in Computer Forensics." IFIP World Conference on Information Security Education; Part of the IFIP Advances in Information and Communication Technology book series (IFIPACT, volume 531). Springer.
- Blauw, F.F. & von Solms, S.H. (2017). "Towards quantifying and defining privacy metrics for online users". IST-Africa 2017 Conference Proceedings, 2017, Windhoek, Namibia, pp. 1-9. IIMC International Information Management Corporation.
- Blauw, F.F. (2017). "Dear Password, I Know You Too Well". International Conference on Human Aspects of Information Security, Privacy, and Trust, 2017, Vancouver, Canada, p212-225. Springer, Cham.

2018

2017

"Technology is a word that describes something that doesn't work yet."

— Douglas Adams