

Gavin John Dollman

Gender: Male
Health: Excellent
Nationality: South African
Date of Birth: 1983/05/27
Notice period: 60 days

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Motivation

My philosophy for teaching is to provide practical industry related problems that students need to solve using hard and soft skills. Personally, I am interested in machine learning and it's many applications within other fields. My current project involves the creation of a predictive model that prospect for fossils within South Africa using drones and image classification. This project involves machine learning, deep learning and photogrammetry to construct these predictive models.

Work Experience

2015 - Present

University of the Free State

Lecturer, Computer Science and Informatics

My role is the administration and presentation of a number of courses within the computer science field. As an academic my responsibilities do not end in the classroom, I am expected to be a researcher and actively participate in department activities such as marketing and mentorship programs.

- Lectured various courses including Website Design, Databases I and II, Software Engineering, Design Patterns, Human-Computer Interaction and Data Structures (Advanced Programming)
- Assessed and designed assignments, exams, project and practical's
- Designed and implemented coursework according to outcomes
- Postgraduate supervisor (Four Honours and one Masters students to date)

2012 – 2014

University of the Free State

Junior Lecturer, Computer Science and Informatics

- Lectured courses including Website Design, Software Engineering, Design Patterns, Human-Computer Interaction and Data Structures (Advanced Programming)
- Assessed and designed assignments, exams, project and practical's
- Designed and implemented coursework according to outcomes

2009 – 2012

University of the Free State

Unit Lecturer, Computer Science and Informatics

- Lectured courses Software Engineering, Design Patterns, Human-Computer Interaction and Data Structures (Advanced Programming)
- Assessed and designed assignments, exams, project and practical's
- Designed and implemented coursework according to outcomes

2008

Techsys Digital

Junior Programmer, Web development, Cape Town

- Developed web applications (.Net, javascript and XHTML)
- Developed surveys (.Net)
- Developed web sites (.Net, ASP, ASP.Net, javascript and XHTML)

2007

University of the Free State

Teaching Assistant, Computer Science and Informatics, Bloemfontein

- Administrative tasks
- Marked assignments and test
- Managed tutorials (NATP certified)

CTi Education Group

Teacher, Computer Science, Bloemfontein

- Lectured A+
- Marked assignments and examinations

Education

M.Sc., Computer Information Systems, 2014

University of the Free State

Bloemfontein

An Exploration of the use of Brain-Computer Interfaces for Human-Robotic Interaction: A comparative study using the Emotiv headset against traditional control techniques

B.Com. Hons., Information Technology, 2009

University of the Free State

Bloemfontein

Designed and implemented a data warehouse based on the student tables of UFS PeopleSoft

B.Com. Information Technology, 2007

University of the Free State

Bloemfontein

Skill Overview

- Remote Piloted Aircraft Pilot and licence holder
- Machine and Deep learning approaches
- Programming ability in C#, Python, Java and ASP.NET
- Data Analysis within R and Python
- UML and ERD Design systems and databases
- Android development
- Software engineering methodologies and development skills (GitLab, Docker, Node.js, etc.)

Academic Training

SPAHLE Certification

2009: A course on the learning principles of Outcome Based Education (OBE)

FLIP Certification

2010: A more advanced course on the learning principles of OBE and modern lecturing techniques

Teaching and Learning Champions Program

2011 - 2013: Took part in the Teaching and Learning project as part of the Computer Science department.

- *Piloted a project using the web 2.0 website Piazza to increase student communication to enhance interaction with the course Software Engineering*
- *Piloted whatsapp as an email alternative to communicate with students*

7 Habits of Highly Effective people

2018: Training to participate in FASSET program

Current Academic Service

Research Portfolio

Chair the portfolio, organised regular department research talks and two research retreats.

Academic Portfolio

Plan coursework, design and implement a new (2015) computer science degree.

Marketing Portfolio

Participate in Open Day, visit schools etc.

South African Institute of Computer Scientists and Information Technologists (SAICSIT) board member

Peer review articles for the SAICSIT conference (2016 and 2017)

SAICSIT Member

FASSET Program

Participate in a program to give additional support to undergraduate students

Afromontane Research Unit (ARU) Member

Mountain research spanning the Drakensberg.

Conference Proceedings

Dollman, G.J., De Wet, L. and Beelders, T.R. (2011). The effects of access to technology on the usability of a BCI. In *Proceedings of the Post Graduate Symposium – SAICSIT*, Cape Town, 3-5 October 2011.

Dollman, G.J., De Wet, L., Beelders, T.R. (2013). Effectiveness with EEG BCIs: exposure to traditional input methods as a factor of performance. In: *Proceedings of the South African Institute for Computer Scientists and Information Technologists Conference*, SAICSIT '13. ACM, New York, NY, USA, pp. 77–80. doi: 10.1145/2513456.2513476

Dollman, G. J., De Wet, L., & Beelders, T. R. (2015). Commercial Brain Computer Interface: Potential As a Natural User Interface. In *Proceedings of the 2015 Annual Research Conference on South African Institute of Computer Scientists and Information Technologists* (p. 13:1–13:8). New York, NY, USA: ACM. <http://doi.org/10.1145/2815782.2815797>

Dollman, G.J., Dollman, K.N., Choiniere, J.N., Raising future prospectors within rural communities · (2018). *Proceedings of the 20th Biennial Conference of the Palaeontological Society of Southern Africa, Bloemfontein, 4–6 July 2018*. Retrieved from <http://wiredspace.wits.ac.za/handle/10539/25516>

References

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