

Matthias Harvey

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**PROFILE**

I have a passion for mathematics, science and software development. My special interests are computer graphics, simulations and artificial intelligence. I thrive on challenging projects. In my spare time I study French and Japanese, love music and play the guitar.

KEY ACHIEVEMENTS

- High school science expo – silver at nationals (Electricity from cardboard)
- Completed an online course: Creative Coding (from Monash University) 2014
- Placed 5th at the national finals of the Standard Bank IT Challenge 2015
- Currently team leader of six selected students developing a web-based peer review system for the University of Pretoria

WORK EXPERIENCE

- Multiple internships at Agnomen Design in Cape Town. A game development company
- Currently Tutor and Research Assistant at the University of Pretoria

INTERESTS

- Computer graphics, Artificial intelligence, Game programming, Simulations
- Mathematics
- Physics
- Astronomy
- French - read, write. Speak - intermediate. Japanese – beginner.

ACADEMIC ACHIEVEMENTS – DISTINCTIONS

2013	
Full academic colours in grade 12	
2014	
Academic information management 101	81
Program design: Introduction 110	77
Software modelling 121	80
Imperative programming 132	81
Calculus 114	83
Discrete structures 115	89
Linear algebra 126	85
Calculus 128	78
First course in physics 114	81
First course in physics 124	77
<i>Cumulative weighted average</i>	<i>76</i>
2015	
Netcentric computer systems 216	82
Mathematical modelling 152	87
Informatics 214	84
Community based project 202	94
Discrete structures 285	80
Computer organisation and architecture 284	80
<i>Cumulative weighted average</i>	<i>75</i>
2016	
Compiler construction 341	79
Computer graphics 344	93
<i>Cumulative weighted average (so far)</i>	<i>76</i>

DEVELOPMENT AND TECHNOLOGY EXPERIENCE

C++	Delphi	Git
Java	Python, Django	HTML, CSS, JavaScript, PHP
OpenGL	MySQL and MS SQL Server	Unity3D
F#, C#	Haskell	AWS

HOBBIES

- Rock Climbing
- Parkour
- Gaming
- Guitar
- Computer generated art through coding

