

Luke Davis Fox (NZ born) Programmer

Te whakatinana Whakaakoranga
Implementing Education

+6421-1888876
foxyflow@contractor.net

Seeking

Python development work or teaching. Remote or onsite. Ideally teaching Pygame and Python concepts. Or work in the videogame industry.

Current programming projects:

2023: Currently developing a Python level editor for education.

Current job:

From Easter 2023 – Fulltime IT technician and consultant for Geeks on Wheels.

Skills from educational and work experience

Please check out my projects in my GitHub: <https://github.com/foxyflow>

Strong Experience:

Object-oriented programming (OOP)

- Python
- JavaScript

- API creation using JSON
- PHP
- SQL
- C++

Software:

- Unreal Engine
- Unity 3D Software (C#)
- Visual Studio Code
- Adobe Suite software
- Microsoft 365

Software:

- Maya and Blender (3D and 2D modelling)
- Trello (Kanban and Scrum)
- Java Software (Weka (Machine Learning))
- Postman (Backend testing)
- Ubuntu on Windows (Bash)

3 Years' Educational Experience:

Other languages:

- Linux Bash

Portfolio

<https://foxyflow.github.io/Portfolio/>

My blog website:

<https://lukeslanguagelearning.tech/blog>

for links to downloadable projects

A series of lessons teaching programming in Python via a game:

<https://tinyurl.com/LukesLessonsPlaylist>

An agile business plan for game design:

<https://tinyurl.com/LukesLanguageLearningPlan>

Other projects

<https://skateboardware.com>

Supporting the local skateboard scene.

Information about myself

I have created a series of programming videos to teach core concepts such as Object Orientated Programming (OOP) – this is taught using Python for future proofing applications because of its vast versatility in the marketplace and little dependence on developers changing programming libraries ... videos on YouTube.

<https://www.youtube.com/channel/UC9IZmtiofWELTH9zk8GHxHQ>

After graduating in Applied Computer Science, I got a paid internship as a blockchain developer. Within the remote role I created a website using the Solidity language for the backend with NodeJS and NextJS with JavaScript and ReactJS as the frontend. The website can convert your artwork into an NFT using the ERC721 standard smart-contract and connecting to a web3 platform such as Metamask. I problem-solved how to create, list, and sell NFTs for people – the team bounced ideas however had no developers.

<https://github.com/foxyflow/BlockchainWork>

Additional information

Personal hobbies: chess and puzzle games, guitar, skateboarding, and Italian culture.

- Travel (before covid) in: Australia, Cook Islands, USA, UK, Italy, and China.
- I hold a current passport, full car, and learner bike license.

Software role-models

- John Carmack
- Tim Sweeney
- Jeff Delaney
- [Nader Dabit](#)
- Paul Morris
- **Jacob Van Silfhout**

Work experience

IT Technician and Consultant Easter 2023 to Current for Geeks on Wheels.

Developing a 2D retro pixel-art game for Tattoo World using Assembly6502 and NES Maker.
2022 to 2023.

Blockchain software developer for NFT_Flash (January 2022 to April with small start-up company)

Software consultant for Manaaki (August. 2021 to December 2021 with Manaaki)

Helping small business via demonstrating and implementing current software products into their roadmaps and lifecycles.

Previous jobs

Interior Plastering

Self-employed for the last seven years. *(April 2016 to current.)*

<https://foxyflow.wordpress.com/>

Foxstop Plaster Service *(2010 to March 2016.)*

Weekend Hostel Manager

Brookfield Accommodation Hamilton NZ (2006 to 2010 4years 4months.)

This job required administration and management skills; organising trades; trust with money and time; Eftpos and cash-up using excel; writing reports and recommendations; eviction notices; and a range of diverse people skills.

Barista

Red Cart Hamilton East (4+ years while working at Brookfield Accommodation.)

I volunteered mornings for perfecting coffee skills with Rob at Red Cart Hamilton East for many years and remain good friends.

Teacher

Ministry of Education Wellington (6 months set-time contract)

Teaching high school Math. and English NCEA levels. *(2005.)*

Youth Horizons Porirua Wellington (1 year)

Teaching with outdoor activities such as skateboarding. Ages 12 to 15 with 'conduct disorders' (contract with Youth Horizons Porirua Wellington) *(2004.)*

Music Teacher

Teaching guitar over the years to a range of children and adults. *(2001 – 2007 -- 7+ years part-time while studying.)*

Referees

Character reference:

Rob Parr: Coffee maker:
+64221082847

Donavan Hartel Geeks on Wheels
+64212085166

Programming teachers happy to be a reference:

Andrew Chapman: former graduate programming supervisor -- Project and Project Management.
Andrew.chapman@toiohomai.ac.nz

Paul Morris: former GUI UI C# UWP Teacher from Manchester -- Paul worked on the first Tomb Raider game.
paul.morris@toiohomai.ac.nz

Construction

- Phil Wickens painter -- 02108575915
- PM building LTD Phil Murry -- 021-231-1879
- Luke Blackman, builder -- 027-6901043

Hospitality

Former manager at hostel. Colin Nordstrom: +6421-831-094

Formal Education

(Finished July 2021)

Bachelor of Science: Major in Applied Computing (University of Waikato).

Class representative, volunteering for these papers: Statistics for Science, Applied Computing Tools, and Advanced Database Concepts. Plus, managing and playing in the University of Waikato's basketball team (good times).

Former tertiary education

- Postgraduate Certificate in Education (University of Waikato).
- Bachelor of Arts Major in Education (Victoria University of Wellington).
- Contemporary Music Certificate (Nelson School of Music).
- Teacher Aide Certificate (University of Canterbury).

Certificates and transcripts



Grades and Assessment Results

Name: Luke Davis Fox
Student ID: 1177897

Completed Qualifications:

Bachelor of Science

Major: Applied Computing

Postgraduate Certificate

Subject: Education

Conferred: Wednesday 15 April 2015

2021 Bachelor of Science

Major: Applied Computing

Code	Title	Trimester	Points	Mark	Grade	Status
COMPX251	Applied Computing Tools 1 <small>(01 Mar 2021 - 27 Jun 2021)</small>	A	15	75.00	B+	Final
COMPX322	Advanced Web Development <small>(01 Mar 2021 - 27 Jun 2021)</small>	A	15	63.83	C+	Final
COMPX323	Advanced Database Concepts <small>(01 Mar 2021 - 27 Jun 2021)</small>	A	15	65.18	B-	Final

2020 Bachelor of Science

Major: Applied Computing


Show all

Code	Title	Trimester	Points	Mark	Grade	Status
COMPX252	Applied Computing Tools 2 <small>(13 Jul 2020 - 08 Nov 2020)</small>	B	15	98.50	A+	Final
COMPX305	Practical Data Mining <small>(13 Jul 2020 - 08 Nov 2020)</small>	B	15	64.86	B-	Final
COMPX324	User Experience Design <small>(13 Jul 2020 - 08 Nov 2020)</small>	B	15	72.15	B	Final
COMPX375	Information Systems Industry Project <small>(13 Jul 2020 - 08 Nov 2020)</small>	B	15	74.35	B	Final
STATS111	Statistics for Science <small>(13 Jul 2020 - 08 Nov 2020)</small>	B	15	53.03	C-	Final
COMPX101	Introduction to Programming	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX151	The Computing Experience	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX161	Introduction to the Web	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX1C1	Unspecified credit for Level 100 Computer Science	-	30	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX221	Programming for Creative Industries	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX222	Web Development	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX223	Database Practice and Experience	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
COMPX2C1	Unspecified credit for Level 200 Computer Science	-	60	-	Pass	Credit: Toi Ohomai Institute of Technology
CSMAX170	Foundations in Computing and Mathematical Sciences	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology
MGSTD1C1	Unspecified credit for Level 100 Management Studies	-	30	-	Pass	Credit: Toi Ohomai Institute of Technology
MGSTD2C1	Unspecified credit for Level 200 Management Studies	-	15	-	Pass	Credit: Toi Ohomai Institute of Technology

2013 Postgraduate Certificate in Education

Major: Education

Code	Title	Trimester	Points	Grade	Status
STERS08	Science Education <small>(25 Feb 2013 - 23 Jun 2013)</small>	A	30	B	Final
STERS12	Innovations in Science, Technology or Environmental Education <small>(08 Jul 2013 - 03 Nov 2013)</small>	B	30	B	Final



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Scholarships

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Scholarship	Academic year	Administered by	Date submitted	Status	Referee responses	Actions
Te Ao Marama Scholarship	2021	Te Mata Kairangi School of Graduate Research	07/Jan/2021	Offer Accepted		Payment summary
Te Ao Marama Scholarship	2020	Te Mata Kairangi School of Graduate Research	06/Jul/2020	Deferred		Payment summary

Awarded: University of Waikato’s Te Ao Marama Graduate Scholarship

ACADEMIC RESULTS SUMMARY

Luke Davis Fox

Student ID: 30011364
NSN: 10031986

Year	Code	Title	Final Mark	Final Result
BACHELOR OF APPLIED INFORMATION TECHNOLOGY				
2020	COMP.6215	Graphical User Interface Programming	80.00	A-
2020	COMP.6214	Project 2	87.00	A
2020	COMP.6213	Project Management	91.00	A+
2019	COMP.6212	Data Management	52.00	C-
2019	COMP.6211	Algorithms and Data Structures	87.00	A
2019	COMP.6210	Web Services and Design Methodologies	81.00	A-
2019	COMP.6209	Systems Analysis and Design	62.00	C+
NEW ZEALAND DIPLOMA IN WEB DEVELOPMENT AND DESIGN (LEVEL 5)				
2019	COMP.5212	Programming	98.00	A+
2019	COMP.5211	Application Testing and Maintenance	81.00	A-
2019	COMP.5210	Web Application Implementation	78.00	B+
2019	COMP.5209	Interface Analysis and Design	88.00	A
2018	COMP.5204	Enterprise	93.00	A+
2018	COMP.5203	Professional Practice	91.00	A+
2018	COMP.5202	Fundamentals of Programming and Problem Solving	79.00	B+
2018	COMP.5201	Information Technology Operations	90.00	A+

AWARDS RECEIVED

2019 NEW ZEALAND DIPLOMA IN WEB DEVELOPMENT AND DESIGN (LEVEL 5) 2598
Pōkairua o Aotearoa Whanake Ipurangi, Hoahoa Ipurangi (Pae 5)

24 February 2021

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NOTE: This Academic Results Summary has been issued without alteration or amendment. Toi Ohomai Institute of Technology Limited is an institute quality assured by NZQA. Both your programme and qualification are recognised on the New Zealand Qualifications Framework.

RR_AWR_0003



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato

This is to certify that

Luke Davis Fox

having satisfied the requirements of the University

has been awarded the

**Postgraduate Certificate
in Education**

Professor Neil Quigley
Vice-Chancellor

Given under the Seal of
The University of Waikato
15 April 2015





This is to certify that

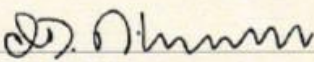
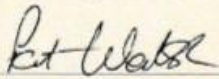
Luke Davis Fox

*having completed the course of study prescribed by the Statutes
and having fulfilled all other requirements
was on the 24th day of June 2013
admitted by the University Council to the degree of*

BACHELOR OF ARTS

in Education




CHANCELLOR

VICE-CHANCELLOR



Under Part 20 of the Education Act 1989,

New Zealand Diploma in Software Development
(Level 6)
2604

This is to certify that on 27 May 2021

Luke Davis Fox

has met the requirements of the programme leading to the above qualification
and was awarded this qualification by Toi Ohomai Institute of Technology

Chief Executive

Issued on 27/05/2021



NSN: 0010031986



Under Part 20 of the Education Act 1989,

New Zealand Diploma in Web Development and Design
(Level 5)
2598

This is to certify that on 15 August 2019

Luke Davis Fox

has met the requirements of the programme leading to the above qualification
and was awarded this qualification by Toi Ohomai Institute of Technology

Chief Executive

Issued on 15/08/2019



NSN:0010031986



Under the powers awarded to Toi Ohomai under the Education Act 1989

Games Design
(Level 3)

Luke Davis Fox

has successfully completed the prescribed programme

Chief Executive
Issued on 05/12/2019

30011364T00058



Under the powers awarded to Toi Ohomai under the Education Act 1989

Games Development
(Level 3)

Luke Davis Fox

has successfully completed the prescribed programme

Chief Executive
Issued 22 August 2019

Please visit:

<https://foxyflow.github.io/Portfolio> for more information and links;

<https://github.com/foxyflow> for source codes and projects.