

Luke Davis Fox (NZ born) Graduate Programmer

Te whakatinana Whakaakoranga
Implementing Education

+6421-1888876
foxyflow@contractor.net

Seeking

Intermediate web development or software engineering position. – Programming work in New Zealand or Australia. Happy to move or work remotely for an ideal job: game development using JavaScript or something close such as Frontend ReactJS or game development in another language.

2023: Currently focusing on JavaScript and using libraries such as Phaser3 (for 2D games) and three.js. for 3D websites. In my spare time, I'm creating a puzzle style sokoban game – checkout latest GitHub uploads for more detail.

Skills from Educational Experience

Within my foxyflow Github, each skill has a language-labelled coded project to see how I code <https://github.com/foxyflow>

Strong Experience:

Object-oriented programming (OOP)

- C# and .NET
- JavaScript and React
- Python
- Solidity (Blockchain)

Software:

- Unreal Engine
- Unity Software
- IDEs: Visual Studio 2019 (and PyCharm)
- Apache: WAMP
- Adobe Suite software

3 Years' Educational Experience:

Other languages:

- Linux Bash
- API creation
- PHP
- SQL
- C++

Software:

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

Portfolio

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

Have a go at a game on my 2D JavaScript game site (no downloading required)

[Foxyflow.net](https://foxyflow.net)

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://github.com/foxyflow>

Games: The *lukeslanguagelearning* link contains an *Unreal* Project made with C++ and Unreal's blueprints with over 10,000 words of agile test-driven project managed documentation. Other 2D and 3D videogame projects such as Unity3D and Universal Windows Platform (UWP) applications were created using OOP in C# .NET also available linked via my foxyflow GitHub.

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 ... videos on YouTube.

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

After graduating 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 – this was a solo

project as the others in the team were not technical in this respect. As the contract has ended, I can now display my work: <https://github.com/foxyflow/BlockchainWork>

I enjoy the whole creation process of designing something from programming. That is, a game, application, or website. Problem solving is very satisfying especially when it can lead to better life improvements. I have created several websites and applications over the years.

Within the workforce, I have come from an applied Education and Construction background. Although I enjoy it, I then completed a Bachelor of Science major in Applied Computing -- a three year heavily focused programming degree in a variety of languages to set myself up for the future and keep up with more relevant present conditions.

Additional information

- **Spare time passion project: 3D website game using three.js for upcoming 3D screens.**
Other hobbies: chess, guitar, skateboarding, and Italian culture.
- Holidays (before covid) in: Australia, Cook Islands, USA, UK, Italy, and China.
- Hold a current passport, full car, and learner bike licence.

Software role models

- John Carmack
- Tim Sweeney
- Jeff Delaney
- Nader Dabit
- Paul Morris
- **Jacob Van Silfhout**

Work experience

Current Software work

Blockchain software developer for NFT_Flash (Mid-January to current with small start-up company)

Creating a smart-contract website using Solidity and ReactJS.

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 – Not related to software

Interior Plastering

Self-employed for the last seven years. (*April 2016 to current.*)
<https://foxyflow.wordpress.com/> -- only to pay the bills while looking for the next software job.

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
Manaaki – please ask for the phone number.

Programming teachers happy to be a reference:

Andrew Chapman: former supervisor on <https://lukeslanguagelearning.academy/>
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

Education

In space time

Supporting Reuben Ward's Patreon C++ Survival Game Course
<https://www.patreon.com/reubenward/posts>

Creating a game using Unreal Engine 5 – a long-term project.

Coding practice:

<https://www.codecademy.com/profiles/Foxyflow>

How do I learn, and problem solve? I enjoy a range of Udemy courses (videos); I buy programming books; and read documentation.

Formal

Current 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
STER508	Science Education <small>(25 Feb 2013 - 23 Jun 2013)</small>	A	30	B	Final
STER512	Innovations in Science, Technology or Environmental Education <small>(08 Jul 2013 - 03 Nov 2013)</small>	B	30	B	Final



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WAIKATO
Te Whare Wānanga o Waikato

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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
177B Levers Road
Matua
Tauranga 3110

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

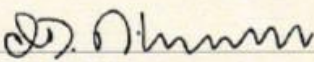
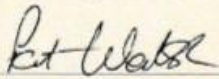
Luke Davis Fox

*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 the most up-to-date CV and projects' information.