

Sean Wayland

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INTRODUCTION

Australian citizen with US permanent residence (green card), Eligible to work in USA and Australia.

Looking for entry level work as a computer programmer preferably in audio/music/DSP and C++ .
Comfortable in most languages and fast learner.

Currently freelance programmer, realtor and jazz musician and educator.

Self motivated developer of numerous apps / websites / audio / music software.

Currently :

Freelance app developer and audio/music/dsp/C++ developer.

QUALIFICATION / STUDY

- Currently enrolled in bachelor of computer science at University of New England in Armidale Australia. Graduating 2019
- Master of Music Performance (A.I.M) - 2005
- Master thesis Major in Education
- Associate Diploma of Jazz Studies (Sydney University) - 1993
- 8TH Grade A.M.EB Piano and Violin (Classical Music)
- Studies Electrical Engineering (University of NSW) -1987-1990
- Higher School Certificate: New South Wales Australia 1986
- Sydney Grammar School

Current university results:

Course: BCOMP - Bachelor of Computer Science

Status: ENROLLED

| Period | Unit Code | Unit Name | Status | Mark | Grade | Achieved CP |
|----------------|-----------|--|------------------|-----------|-----------|-------------|
| <u>2015/T3</u> | COMP100 | Introductory Information Technology | <u>COMPLETED</u> | 85 | <u>HD</u> | 6.000 |
| <u>2016/T1</u> | AFM101 | Introduction to Financial Accounting | <u>COMPLETED</u> | 77 | <u>D</u> | 6.000 |
| <u>2016/T1</u> | COSC110 | Introduction to Programming and the UNIX Environment | <u>COMPLETED</u> | 78 | <u>D</u> | 6.000 |
| <u>2016/T2</u> | AMTH140 | Discrete Mathematics | <u>COMPLETED</u> | 54 | <u>NC</u> | 0.000 |
| <u>2016/T2</u> | COSC120 | Object Oriented Programming | <u>COMPLETED</u> | 71 | <u>C</u> | 6.000 |
| <u>2016/T3</u> | ECON101 | Introductory Microeconomics | <u>COMPLETED</u> | 68 | <u>C</u> | 6.000 |
| <u>2016/T3</u> | STAT100 | Introduction to Statistical Modelling | <u>COMPLETED</u> | 78 | <u>D</u> | 6.000 |
| <u>2017/T1</u> | COSC210 | Database Management Systems | <u>COMPLETED</u> | 62 | <u>P</u> | 6.000 |
| <u>2017/T1</u> | MTHS120 | Calculus and Linear Algebra 1 | <u>COMPLETED</u> | 69 | <u>C</u> | 6.000 |
| <u>2017/T2</u> | AMTH140 | Discrete Mathematics | <u>COMPLETED</u> | 68 | <u>C</u> | 6.000 |
| <u>2017/T2</u> | COSC220 | Software Engineering Studio | <u>COMPLETED</u> | 88 | <u>HD</u> | 6.000 |
| <u>2017/T2</u> | COSC240 | Operating Systems | <u>COMPLETED</u> | 76 | <u>D</u> | 6.000 |
| <u>2017/T3</u> | ECON203 | Banking and Finance | <u>COMPLETED</u> | 71 | <u>C</u> | 6.000 |
| <u>2017/T3</u> | PSYC101 | Introductory Psychology I | <u>COMPLETED</u> | 65 | <u>C</u> | 6.000 |
| <u>2018/T1</u> | COSC230 | Data Structures and Algorithms | <u>COMPLETED</u> | 69 | <u>C</u> | 6.000 |
| <u>2018/T1</u> | COSC250 | Programming Paradigms | <u>COMPLETED</u> | 83 | <u>D</u> | 6.000 |
| <u>2018/T2</u> | COSC330 | Parallel and Distributed Computing | <u>COMPLETED</u> | 70 | <u>C</u> | 6.000 |
| <u>2018/T2</u> | COSC350 | Artificial Intelligence | <u>COMPLETED</u> | 68 | <u>C</u> | 6.000 |
| <u>2018/T3</u> | ECON201 | Intermediate Microeconomics | <u>ENROLLED</u> | <u>**</u> | <u>**</u> | <u>**</u> |

Results history for Course Code: BCOMP, All Courses.

SKILL SETS

Computer Science skills/ platforms:

Proficient in these languages:

C, C++, Python, Java, SQL, Scala, Cuda, HTML, PHP, CSS, Javascript, R, Linux, Max , JUCE, Pyo, Javafx

Software :

Excell, Word, Cubase, Protools, Reaper.

Worked in IT for Consulting and Training services: 1987-1989

Freelance computer programmer: 2016-current

Tasks involved C++, Cmakelists (Clion), Python.

Open Source computer Projects : <https://github.com/seanwayland>

Web Development:

<http://waylostreams.com/>
www.seanwayland.com

App Development: (Android and IOS)

Ear training application for musicians to develop perfect pitch : Android / IOS

Made with JUCE framework

<https://juce.com/>

<https://itunes.apple.com/us/app/waylo-ear-trainer/id1320556267?mt=8>

<https://play.google.com/store/apps/details?id=com.juce.playingsoundfilestutorial&hl=en>

Screenshots iPhone iPad



Math app, mortgage calculator for Realtors:

<https://itunes.apple.com/us/app/waylos-realtor-math/id1331770088?mt=8>

https://play.google.com/store/apps/details?id=com.seanwayland.waylorealformath&hl=en_US

Developed various audio and midi plugins and synthesizers for musicians. Interest in DSP

Great sounding 8 band modulated delay VST plugin:

<https://www.seanwayland.com/waylosynth>

Pitch shifting DSP plugin that connects midi to a PSOLA algorithm.

<https://www.youtube.com/watch?v=QdAZsbBmKKY>

Goals: To improve the interface between musicians and music technology. To bring my 30 years experience as a serious musician to music software and tech. I aim to build a better keyboard for musicians.

I would like an instrument to be modular (octaves can be connected), have wireless midi and audio, be programmable, run VST instruments and also have an analog synthesizer on a chip. I would like to build a real game changing instrument that actually brings all the technology together, is fast and stable and super portable. Most gear available either involves dealing with a computer or is a rehash of one type of outdated mode of synthesis. Work in any field of audio/dsp/C/C++ programming or embedded tech would help me on this path.

AS MUSICIAN:

Released around 30 CDs of music and toured the world.

Well respected and well known jazz musician and synthesizer player worldwide.

<https://www.seanwayland.com/>

<https://www.youtube.com/user/seanwayland/>

Reviews:

https://docs.wixstatic.com/ugd/a27d96_47c955f1eef042dbbf5713532fd721e5.pdf

Music:

<https://seanwayland.bandcamp.com/>

Composer and author of a great deal of music and educational materials:

<http://www.lulu.com/shop/search.ep?contributorId=680843>

1986: Wayland Management: Bookkeeping , Data Entry

1987-1989: Bartender-Boulevard Hotel Sydney

1987-1990: Retail CD sales

1988-1990: Computer technical support and training at Consulting and Training Services PTY LTD Sydney

2013-2015: Real Estate agent with New York TOWN Real Estate

2015-current: Real Estate agent with Oxford Property Group

2016-current: Real Estate agent with Christoph Schuendler Realty New Jersey

2009-2010 Fieldston College: Music director for Dance Classes

I accompany dance classes at this secondary school in Riverdale

2008 Piano School of New york: Taught 1st grade piano classes

I took small music classes of children around 5 years of age and taught piano and music .

2002 – 2005 Australian Institute of Music: Taught Bachelor of music students

I took a keyboard class , ran ensembles and taught piano students to students from different musical backgrounds ... classical , jazz , pop and theatre

2000-2001 Music Therapist at St Christopher Otilie in Queens, NY

Private students in New York

1997-2000 Taught piano and vocalists at Sydney University (Sydney Conservatorium of music)

1993-1996: Taught mostly classical piano at secondary school in Sydney (St Patrick's college)

20 years of experience teaching private students in Piano , Violin , Composition and Music Technology .

Languages spoken: English (native speaker), Mandarin, Japanese, French

Interested in music (especially jazz fusion / synthesizers and oz rock)

Ex surfer who still likes to visit Hawaii and watch pipeline from the beach!