

## SEAN WAYLAND

cell (347) 5231455 / email: seanwayland@gmail.com

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### Profile

- Strong full-stack development skills: MERN stack and MEVN stack.
- Solid fundamentals in core Java (SE 6/7/8) and good knowledge in Java concurrency and multi-threading.
- Hands-on experience in AWS ecosystem (EC2, S3, SQS, etc).
- Strong experience in relational (MySQL, PostGres) and NoSQL (MongoDB) databases..
- Strong C++ skills including multi-threading, CUDA, MPI and embedded devices and audio DSP
- Strong Python skills including data analysis and music software.
- Experience in Java EE (Servlet/JSP/JSF) and open source frameworks (Spring/Hibernate).

### Achievements

- Implemented key features of database, server and website and Android application for Town Real Estate
- Database Manager and creator of restful API for TRAP.NZ. A non-profit saving endangered species in New Zealand using machine learning to recognise endangered species in image traps.
- Implemented many features of TunePatch.com. Built using SQL, PHP, HTML. Ongoing maintenance and testing.

### Work Experience

#### **Database Manager**

05/2018 – 09/2019

*Shoptiques, Inc, New York, NY*

- Created MYSQL Database for TRAP.NZ. Designed for performance with very high data volume.
- Worked on features of Restful API using node.js, mysql, JSON, Javascript.
- Managed amazon S3 bucket to store and retrieve data. and helped troubleshoot issues with Android App communicating with API.

#### **Application Software Engineer**

01/2017 – 06/2018

*Town Real Estate*

- Build core RESTful APIs to handle large volume of client data through AWS, Node.js, Javascript, MongoDB, Socket.io
- Improved performance and troubleshoot issues of company Android app with Maven, Zillow API, JAVA, XML JSON
- Worked on features of Front end communicating with API using React, Node, Javascript, HTML, CSS

#### **Senior Software Engineer**

01/2015 – 01/2017

*Tunepatch.com*

- Fully involved in the design, implementation and deployment of music website.
- Created MYSQL database and web pages and API using PHP, HTML, CSS, JAVASCRIPT
- Enhanced performance by optimising SQL queries.

#### **Software Engineer**

*Consultant Music/Audio Developer*

2013 – present

- Created musical applications for Catsmat, MidiBot, The loop Loft and many others
- Cross platform applications written in C++ and Python
- Audio/MIDI VST instruments

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- Musical solutions often created in JUCE or PYO targeting windows, OSX and Linux
- Solutions involving porting code to embedded devices like Bela, Raspberry Pi and Arduino.

## Skills

Language	Java 5/6/7, Servlet, JSP, SQL, JavaScript, C++, PYTHON, HTML, CSS, XML, Scala
Open Source	Spring 3/4/5, Hibernate, jQuery, WebSockets, D3, Vue, React
Database	Postgres, MongoDB, MySQL, SQL Server
Multithreading	Posix, MPI, CUDA, SwingWorker
Others	Intellij, Eclipse, Git, Gradle, Maven, Clion, XCODE, WebStorm, Linux, Android Studio
OS	OSX, Windows, Linux ( Ubuntu ), IOS , Android
Audio/DSP	JUCE, PYO, MIDO, FAUST, MAX/MSP

## Education

- Bachelor of Computer Science (University of New England)
- Part Time PHD student (audio/DSP) University of Technology, Sydney

Resident of Jersey City and Permanent Resident (green card holder)

I am eligible to work without Authorization.

<https://github.com/seanwayland>

<http://seanwayland.com/portfolio.html>