

# < CALLUM PICKARD />

## JUNIOR DEVELOPER

### CONTACT

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### EDUCATION

#### **Software Engineering**

HyperionDev  
Cape Town  
July 2022 - October 2022

#### **Chinese Language**

HLS Manadarin School  
Cape Town  
July 2021 - July 2022

#### **Digital Design & Publishing**

FOD, Academy of digital Arts  
Jan 2012 - Decmber 2012  
Cape Town

### SKILLS

Python  
Java  
SQL  
HTML  
CSS  
Bash

IOT/Arduino/Raspberry Pi  
Object Orientated Programming  
Machine Learning

Sublime  
Eclipse  
VS Code  
Conda  
NodeRED  
Docker

### CAREER OBJECTIVE

Junior developer with limited formal work experience. Broad experience in entertainment industry using microcontrollers, LED arrays and RaspberryPi/Arduino. Recently completed a Software Engineering bootcamp to expand on previous knowledge, looking to work with experienced developers and learn best practices, push boundaries and stay current. Learning all the time, passion is everything, languages are mine, both written and spoken.

### WORK EXPERIENCE

#### PROJECT LEAD

##### **ThingKing Studios**

2016 - 2018 (contract based)

- Worked alongside developers and electrical engineers to accomplish interactive compenents for installations.
- Implemented technical and responsive installations in high exposure locations.
- Designed and fabricated large scale interactive experiences from concept to creation.
- 3D modelled and presented technical drawings for Engineering approval and outsourced fabrication.
- Installed MIDI controlled LED arrays for realtime music experiences and made LED matrixes for live hashtag displays.
- Regularly used APIs and performed onsite maintainence of WIFI/GPRS controlled microcontroller systems.

#### ARTIST

##### **Public Artworks - Personal**

2008 - Present

- Familiarity iimplementing arduino enviroments, used responsive lighting and other basic creative coding often in my artworks for many years.
- Worked as a member of a touring fabrication team, was responsible for the eletronic elements and have a good understanding of projection mapping and LED mapping software (MadMapper in particular). - Hardware and neat, meticulous wiring fanatic.
- Created numerous IOT projects, and have an affinity for the the RaspberryPi. Familiar with PWM, GPIO and pin control of microcontrollers through arduino environements, nodeRED and by using bash directly.
- Released a successful NFT project in 2019, learned about the web3 space. Not a fanatic, but very familiar with smart contracts and a strong understanding of the blockchain environment Sand solidity. Especially regarding the importance of code optimization regarding gas consumption and lessons regarding databases and information storage.