

# Longinus Pun

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## Education

**University of California, Irvine**, Irvine, CA

June 2021

B.S. Computer Science, Business Information Management; GPA: 3.5

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## Coursework

Calculus, Linear Algebra, Discrete Mathematics (ICS 6B / 6D), Statistics (ICS 67), Computer Organization (ICS 51), Software Engineering (IN4MATX 43), Python (ICS 32A / 33), C/C++ (ICS 45C / 46 / 53), Design and Analysis of Algorithms (CS 161), SQL (CS 122A), Algorithms and Data Structures (CS 165), Artificial Intelligence (CS 171), Principles of Operating Systems (CS 143A), Information Retrieval (CS 121), Machine Learning and Data Mining (CS 178)

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## Technical Skills

Python, C++, SQL, HTML, CSS, JavaScript/JQuery, Mathematica, Java, Android: Kotlin and Java  
Operate MakerGear 3D printer using Simplify3D with Fusion360 for CAD  
Familiar with Numpy, Scipy/Scikit, Tensorflow, Pytorch  
Worked with Raspberry Pi, Arduino

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## Projects

Android

### Reddit Thread Clone

Mar 2020

App implementing Google Firebase to mimic a Reddit thread.

### Gas Calculator

Sep 2019 – Dec 2019

Small app to calculate mileage for cars to learn Kotlin for Android Studio

Web Development

### Cake Decorator

Apr 2018

Quick cake decorating game created at LA Hacks to learn some web development skills like jQuery for page updates and interactions

Python

### Columns

Nov 2017 - Dec 2017

Created Logic and graphical Interface for Columns with PyGame

### Textual Connect Four

Oct 2017 - Nov 2017

Created Logic and textual interface for Connect Four to be run in Python shell

Robotics

### Remote Control Car

Jun 2017 - Aug 2017

Built plywood car using Python script on Raspberry Pi to connect with a corresponding Java Android application via Bluetooth driver. Used Arduino GPIO to control wheel speed and direction using PWM via an H-bridge.

Mathematica

### Lights Out

May 2017 - Jun 2017

Created Lights Out Game with solutions for randomly generated boards

### Image Displacement

Jan 2017 - Mar 2017

Created demonstration featuring new functions in Mathematica  
Submitted to Wolfram Demonstrations Project

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## Experience

**AACF**

Apr 2019 – Jun 2020

AV/Multimedia

Manage PowerPoints and audio/visual aspects of weekly meetings

**Lollinet Technology**

Jun 2018 - Aug 2019

Assist in creation of development tools

Wrote a C++ driver test code with interfaces with UART/CLI and 128x64 OLED display via 12C

Created a python as a serial port controller to manage file download between Windows and Bluetooth device

**Torrey Pines High School 3D Printing**

Sep 2016 - Jun 2017

Set up 3D Printers and Software at School

Taught 2 teachers (CAD and math) to operate newly acquired MakerGear printers and 20 students in CAD class to print their own designs from Fusion360 through using Simplify3D