

Thomas Bui



Tech enthusiast with strong background working in education. 9+ years in education, with 5 years spent teaching in Japan. Hobbyist programmer for many years, both using high-level game engines and lower-level C++. Self taught topics in the past year include computer graphics, web development, databases, android development and machine learning. Making a career transition into a software engineering.

Website | <https://tbui468.github.io>

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Skills

Communication

Extensive experience in education
Proficient in Japanese (JLPT 2)
5 Years Working in Japan
9 Years Working in Education

Web Development

HTML / CSS
Javascript / Node.js / Express.js
SQL Databases (Postgresql)
Google Cloud / Heroku

Other Tech

C++ / CMAKE
OpenGL
Git / Git Hub
Linux / Windows

Projects

Interactive Neural Network in the Browser

HTML, CSS, Javascript, Tensorflow.js

This browser-based application is designed to give the layperson an intuitive understanding of how these neural networks function, and to demystify some of the magic inside the black boxes. Try it at <https://tbui468.github.io/grid>.

Computer Graphics

C++, SDL2, OpenGL, CMake

Rigid-body dynamics simulation: <https://github.com/tbui468/rigid-body-simulation>

Software 3d rasterizer: <https://github.com/tbui468/3d-rasterizer>

Game engine renderer: <https://github.com/tbui468/rose-game-engine>

Anonymous Question and Answer Message Board

Postgresql, ExpressJS, ReactJS, NodeJS, Pytorch, Flask

Anonymous Question and Answer (AQA) is a message board where the votes are weighted by expertise of the voter. A neural network is used to classify questions by topic.

Backend: <https://github.com/tbui468/aqa>

Frontend: <https://github.com/tbui468/aqa-frontend>

Neural Network: <https://github.com/tbui468/aqa-neuralnet>

Education

B.S. in Electrical Engineering: Digital Signal Processing

University of Washington (USA), 2009

- Comprehensive study of electronics, including computer hardware and low-level programming in assembly.
- Data structures, algorithms, object-oriented programming and other computer science topics.
- Extensive study of applied math, including linear algebra, differential equations, statistics and probability.

Work Experience

Self-study

2020-present

Cofounder

LASEPS (VIETNAM), 2020-present

- Cofounded Logical Analyzing System for Enterprises, Products and Services (LASEPS), a digital marketing company.
- Procured main investment for starting the company

Assistant Office Manager

Bolsa Medical Clinic (USA), 2017-2019

- Maintained facility to abide by US government safety standards.
- Updated software on all employee computers and laptops. Assisted office personnel with technical problems.
- Responsible for monitoring vaccine storage and safe handling for pediatric department.

English Language Teacher

Kure City Board of Education (JAPAN), 2012-2017

- Planned and taught classes up junior high students and high school students.
- As Kure City block leader for foreign English teachers from 2014, oriented new foreign teachers coming to Kure City and Hiroshima Prefecture.
- Organizer and multi-time presenter at yearly English teachers (both foreign and Japanese teachers) conference in Hiroshima Prefecture.

Math Instructor

Best in Class Education (USA), 2009-2012

- Designed and created a 52-week algebra course for highschool students. Course included explanations, diagrams, problem sets and their corresponding solutions.
- Taught classes for various entrance exams, including SAT and ACT, to high school students.
- Wrote monthly articles on education topics for company website.