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Trey Amador

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Education

California State Polytechnic University, Pomona
M.S. in Computer Science, underway

Fall 2016 –
Pomona, CA

Palomar College

Winter 2014 – Spring 2016
Palomar, CA

University of California, Riverside
B.S. in Biology, *summa cum laude*

Fall 2009 – Spring 2013
Riverside, CA

Technical Experience and Projects

Videogame Engine (2016). Original gaming engine making heavy use of polymorphism for future, scalable game projects. Implemented in C++ with Simple DirectMedia Layer (SDL) graphics library.

Web Classifieds Service (2016). Online buying/selling/social network for college students. Implemented with the MEAN (MongoDB, Express, AngularJS, NodeJS) Stack. At <http://www.broncocorner.com>.

Rhythm Generating Software (2016). Drum machine software which synthesizes drum beats utilizing digital signal processing theory. Implemented with C++ with a QT GUI. In progress.

Languages, Libraries, and Technologies

C++: GUI design, game design and audio projects with QT GUI framework, SDL, TinyXML parser, etc...

Python: for webscraping tasks with BeautifulSoup, and numerical analyses with matplotlib and NumPy

JavaScript: for web development with NodeJS, Express, AngularJS

Java: used with standard sound and graphics library

MongoDB: NoSQL database experience including Mongoose (JavaScript) and PyMongo (Python) libraries

Additional Experience and Distinctions

Biology Laboratory Technician
University of California, Riverside

2010 – 2014

Published in the Journal of Neuroendocrinology <https://www.ncbi.nlm.nih.gov/pubmed/25659593>
Article titled: *Effects of Reproductive Experience on Central Expression of Progesterone, Oestrogen [sic] α , Oxytocin, and Vasopressin Receptor mRNA in Male California Mice (Peromyscus Californicus)*

Academic Excellence Award in Biology, and Rosemary Schraer Award Recipient
for academic and research achievement in biology

2012, 2013

Above and additional projects can be found at:

<https://github.com/TreyAmador>