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Temecula CA 92591

## 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

*Robotics Simulations (2017)*. Path-forming and -finding algorithms implemented for the Player/Stage framework for use in robotics and AI simulations. In C++.

*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. Also implemented with the MEAN 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++. In progress.

### Skills Summary

*Programming/Scripting Languages:*

C++, Python, JavaScript, Java

*Web Development:*

HTML, CSS, Node.js, Express, AngularJS, jQuery

*Database Management:*

MongoDB, knowledge of MySQL

### 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]  $\alpha$ , 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

Source code at:

<https://github.com/TreyAmador>