Bryan Manuele

"I want to understand things clearly and explain them well."

✍ Data Science, Full Stack Development, Embedded Systems, and Research.

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⚡ www.fermidirak.github.io

Work experience

June 2017 – Present

Aerendir Mobile, Mountain View

Machine Learning on Embedded Systems Development

Development and maintenance of a comprehensive C implementation of Support Vector Machine (SVM) classification on embedded systems. Specifically designed for the training of models on mobile devices without use of the cloud. Development and documentation of proprietary Digital Signal Processing and feature creation modules.

June 2016 – September 2016

UC Berkeley LBNL; E3S Labs, Berkeley

Research in Graphene Nanoribbon Characterization

Development of a novel dry transfer process for transferring atomically smooth 9 Angstrom wide Graphene Nanoribbons onto arbitrary substrates that maintain the ribbon's structure. Characterization and imaging of the ribbons using Atomic Force Microscopy and spectral analysis.

June 2015 – Present

Foothill College Physics Department

On stage Presenter: Physics Show

Presented fun physics and engineering demonstrations on stage to audiences upwards of 2000 students and parents as a part of the Foothill Physics Show. Played a leadership role in the development of the demonstrations and script.

November 2014 – March 2015

Freelance, Palo Alto

Android App Development

Development of multiple Android apps with over 10,000 accumulated downloads total. Development of apps with a heavy emphasis on making effective UI/UX components. My most downloaded app is a homework scheduling app that provides a platform for mentally handicapped students to keep track of their homework and their classes.

Education

2011 – 2015 **Henry M. Gunn Highschool**
High school diploma
AP Scholar with Distinction

2016 – Present **Foothill College**
BS in Electrical Engineering and Computer Science

Public projects

2017 **CoinPredict (github.com/CoinPredict)**
Predicts trends in cryptocurrencies using state of the art machine learning techniques

2014 **Derivigral (github.com/Derivigral)**
Uses a computational graph to symbolically evaluate derivates and integrals of functions

2016 **Dirak Blog (fermidirak.github.io)**
My personal bootstrap based fully featured comment enabled blog. Completely open source.

Communication skills

English	Native speaker
Spanish	Native speaker
Chinese	Oral: good – Written: proficient

Software skills

Good level	C, Python, TensorFlow, Matlab, Node, React, D3, HTML, CSS, AWS, git, Linux, Java, Android, REST
Intermediate	Lua, C++, LaTeX, PostgreSQL, CUDA
Basic level	Windows, MySQL, R, MongoDB