



## EDUCATION

Fall 2018 – Fall 2020	<b>University of California, Berkeley</b> B.A. Computer Science – 3.76/4.00 CS Representative Intern at PASAE	<b>Berkeley, CA</b>
Fall 2016 – Spring 2018	<b>Orange Coast College</b> Computer Science for Transfer – 3.84/4.00 Completed the Honors Program Member of the Data Science and Artificial Intelligence Club	<b>Costa Mesa, CA</b>

## PROJECTS

(Ongoing)	<b>Stonks: Visual Data Analyzer</b> Built a local application that visualizes various statistics of selected stock market data. <i>Repo link: <a href="https://github.com/gallanoe/Stonks">github.com/gallanoe/Stonks</a></i>	<b>Language: Python, HTML/CSS   Tools: Plotly, Dash, Flask</b>
	<b>Hangmen</b> Designed and built a web application that turns Hangman into an online multiplayer party game. <i>Link: <a href="https://hangmen.io">hangmen.io</a></i> <i>Repo link: <a href="https://github.com/johnchinjew/hangmen">github.com/johnchinjew/hangmen</a></i>	<b>Language: HTML/CSS, Javascript, Elm   Tools: AWS Ecosystem</b>
	<b>Robust CNN Classifier</b> Designed and tested various image preprocessing methods to protect state-of-the-art mobile architectures such as MobileNet and EfficientNet against adversarial inputs on the Tiny-Imagenet dataset. <i>Research project for CS 182, Deep Neural Networks</i>	<b>Language: Python   Tools: PyTorch, Google Compute Engine</b>
	<b>Relational Database System</b> Implemented a fully functional database that optimizes queries by implementing the underlying indexing structures, query iterators, join algorithms, cost estimation, query optimization, and concurrency control, etc., for a SQL relational database. <i>Course project for CS 186, Database Systems</i>	<b>Language: Java</b>
	<b>Using Interactive Particle Systems to Model Spread of Misinformation</b> Modeled the spread of misinformation using interactive particle systems and ran simulations of the model to test hypothesis concerning the containment of misinformation. <i>Research project for EECS 126, Probability and Random Processes</i> <i>Repo link: <a href="https://github.com/gallanoe/mis-sim">github.com/gallanoe/mis-sim</a></i>	<b>Language: Python</b>
	<b>ChocoPy Compiler</b> Implemented a compiler for the ChocoPy language, a statically typed dialect of Python 3.6, for the RISC-V ISA by implementing the parser, lexer, type checker, and code generation portions of a compiler. 1st place in four of five categories in a compiler performance tournament. <i>Course project for CS 164, Programming Languages and Compilers</i> <i>Language specification: <a href="#">ChocoPy</a></i>	<b>Language: Java   Tools: JFlex, CUP</b>
	<b>PintOS</b> Implemented elements of a modern operating system such as fairer task scheduling, synchronization variables, system calls, cached file systems, etc. <i>Course project for CS 162, Operating Systems and Systems Programming</i>	<b>Language: C</b>

## TECHNICAL SKILLS

<b>Languages</b>	Python, C, C++, Java, Javascript, Elm, bash, HTML/CSS
<b>Technologies</b>	PyTorch, Tensorflow, PostgreSQL, AWS Ecosystem (EC2, S3, SageMaker), Google Cloud Platform, IntelliJ, Visual Studio