



## NICHOLAS GUERRERO

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### Summary:

Computer Science Masters graduate with a passion for Full Stack Software Engineering, Machine Learning, and Cryptography. Solid foundation in machine learning, algorithms, web technologies, computer networking, operating systems, database systems, applied cryptography, and information retrieval.

### EXPERIENCE

#### ComplyAI – Full Stack Software Engineer Intern

September 2023-Present

- Tested and designed the training and deployment of a machine learning binary classification model. The model is used to streamline core business processes

#### City National Bank – Data Management Officer

November 2017-January 2020

- Support and drove implementation, controls, and requirements for SQL table schemas for an enterprise relational database. Data organization led to 30% increase in compliance rates
- Enabled root cause analysis of erroneous data errors propagating throughout enterprise data warehouse. Created remediation plans in response
- Developed and validated documentation for processes and procedures concerning daily model risk evaluation reports to team leads using Python and SQL queries
- Performed in a cross-functional team acting as a liaison between the Software Engineering department and client facing Business Units
- Built full-stack Python Flask-App utilized to run data validation tests on incoming monthly data that fed into machine learning regression portfolio risk evaluation models

#### NASA, Jet Propulsion Laboratory – Jr. Data Scientist

March 2017-November 2017

- Trained a machine learning recommendation engine using Scikit-Learn, Gensim, and Tensorflow Python libraries. Machine learning model recommend different IT products to JPL staff
- Managed the Mongo No-SQL databases of the team's enterprise IT platform; improved data quality by 50%
- Collaborated with team's web developer to prototype & integrate machine learning models into platform backend using React.
- Designed and helped implement a new ticketing and response system, increasing IT team ticket resolution rate by 15%
- Built out CI/CD pipelines and automated testing script RESTful APIs in Python software language.
- Ran, monitored, and alerted management to chronic IT issues plaguing different research departments

#### City National Bank – CCAR Data Analyst Intern

September 2016-March 2017

- Reported on incoming edit check feedback from Comprehensive Capital Analysis and Review (CCAR) testing team

### EDUCATION

#### University of Southern California

Los Angeles, CA

#### Master of Science, Computer Science

August 2021-May 2023

Relevant Coursework: Machine Learning, Analysis of Algorithms, Web Technologies, Computer Networking, GPA 3.8  
Programming System Design, Operating Systems, Database Systems, Applied Cryptography, Information Retrieval

#### Whittier College

Whittier, CA

#### Bachelor of Arts, Economics, emphasis in Math/Business

September 2012-June 2016

Relevant Coursework: Econometrics & Statistical Models, Financial Derivatives, Accounting, Game Theory GPA 3.5

### PROJECTS

#### Weenix Operating System

September 2022-December 2022

Coded Process Management, Memory Management, File System, Device Drivers, and Network Stack from scratch in C programming language

#### TCP/UDP Socket Programming

September 2021- December 2021

Developed in C++ a UNIX socket programming network model of a social matching service where two clients issue a request for finding a compatibility score. Requests are sent to a Central Server using the TCP/UDP protocols to interact with three other backend servers for pulling information and data processing

### SKILLS

**Programming Languages and Software Tools:** Ethereum Smart Contracts, TensorFlow, Git, React.js, Docker, AWS, Kubernetes, Golang, Python, C++, Solidity, JavaScript, SQL Server, NoSQL Databases, Linux, HTML, CSS, Material UI, Node.js, .NET, C#