NICHOLAS GUERRERO

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Summary:
Computer Science Masters graduate with a passion for Full Stack Software Engineering and Cybersecurity. Solid foundation in machine learning, algorithms, web technologies, computer networking, operating systems, database systems, applied cryptography, and information retrieval. Studying to get the AWS Cloud and Security+(Plus) Certification.

EXPERIENCE

ComplyAI – Full Stack Software Engineer Intern   September 2023-Present

- Deployed to production 90%+ accuracy LLM BERT Text & VIT Image Transformer AI models written in Python and containerized in Docker, leveraging AWS cloud services. The models are used as integral pieces of the core business product
- Owned and greatly expanded upon a piece of the ComplyAI codebase that had to do with loading different AI/ML models on AWS EC2 production instances and exposing endpoints for model access

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 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, Python, AWS EC2/S3
- Built out CI/CD pipelines and automated testing script RESTful APIs in Python software language

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. Requests are sent to a Central Server using the TCP/UDP protocols to interact with three other backend servers for data processing

SKILLS

Top Programming Languages and Software Tools by Years of Experience: Linux , Python, Pytorch, TensorFlow, Pandas, Numpy, C++, JavaScript, React.js, Node.js, Docker, AWS Botto-EC2/S3/SQS, Git, SQL, NoSQL, , HTML, CSS, Typescript, Java,