NICHOLAS GUERRERO

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Summary:
Computer Science Masters graduate with a passion for Full Stack Software Engineering, Machine Learning, and Cryptography. Seeking full-time roles to apply my skills and knowledge to real-world challenges. Solid foundation in machine learning, algorithms, web technolgoies, computer networking, operating systems, database systems, applied cryptography, and information retrieval.

EXPERIENCE

City National Bank – Data Management Officer   November 2017-January 2020
- Designed SQL table schemas for an enterprise relational database. Data organization led to 30% increase in compliance rates
- Visualized results of Federal Model Edit Check Reports using Python for computation and different visualization tools
- Developed an automated system to provide daily model risk evaluation reports to team leads using Python and SQL queries
- Performed in a cross-functional team acting as a liaison between Software Engineering department and the Business Units
- Built full-stack Python Flask-App utilized to run data validation tests on incoming monthly data feeding into enterprise database

NASA, Jet Propulsion Laboratory – Jr. Data Scientist   March 2017-November 2017
- Trained a recommendation engine using Scikit-Learn and Gensim to 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
- Designed & helped implement a new ticketing/response system increasing IT team ticket resolution rate by 15%
- Created a reporting structure to identify what departments were having chronic IT issues

City National Bank – Intern CCAR Data Analyst   September 2016-March 2017
- Reported on incoming edit check feedback from United States Federal Reserve 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 Derivates & Accounting,   GPA 3.5
Game Theory

PROJECTS

Chess Analysis ChatGPT React App   September 2016-March 2017
Chess analysis app written with MERN stack and chatGPT Api JavaScript library to analyze chess moves. React Front End, Node.js backend connected to a Mongo No-SQL database and Express.js for middleware, routing, and HTTP functionality

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

RSA/AES Cryptosystem   January 2022-March 2022
Implemented a cryptosystem using AES-128 to encrypt data and RSA (OAEP) to protect AES keys in Python with Pycryptodome

TCP/UDP Socket Programming   September 2021- December 2021
UNIX socket programming network model in C++ of a social matching service where two clients issue a request for finding compatibility. Requests are sent to a Central Server to interact with three other backend servers for pulling information and data processing

SKILLS

Programming Languages and Software Tools: Python, C++, Java, JavaScript, SQL Server & NoSQL Databases, Linux, OSx, Windows, Git, Jira, Operating Systems, React, Typescript, Node.js, HTML, CSS, Material UI, Next.js, AWS, Pytorch, Tensorflow