JAYPER C. SANCHEZ
FULL STACK DEVELOPER

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Innovative Software Engineer | Blockchain Specialist | AI Enthusiast

With over five years as a Full-stack MERN Developer I am skilled in Python and Javascript. I have experience with server side development both ExpressJS and Flask. I am also experienced with both RDBMS such as PostgreSQL and MySQL. I am also experienced with NoSQL working with MongoDB and Redis. I've developed Solidity smart contracts using ERC20 and ERC1155 for NFTs for networks Ethereum and Polygon. I am also experienced designing and implementing decentralized applications for React and React Native for mobile applications. I've deployed applications on both AWS EC2 and Google Cloud server instances.

Key Competencies:

- Solidity with latest pragma
- Hardhat and Truffle suite for smart contract development
- DeFi libraries Uniswap V2, token development of ERC20 and NFT ERC1155
- React and React Native for user interface
- ExpressJS and Flask for middleware server side functionalities
- SQL and NoSQL database for data retention
- Machine Learning with data analytics and AI tools such as Numpy, BERT, torch and psycopg2 and OpenAI SDK.
- DevOps for CI/CD on AWS and Google Cloud Platform

EDUCATION

- Diploma Information Technology Cosumnes River College
- Associate degree in Computer Programming & Systems Analysis, CompuCollege School of Business.

PROFESSIONAL EXPERIENCE

Virlan Chainworks
Founder | 2018 - Current

Virlan Chainworks stands as a dynamic software development house, driven by a passion for innovative solutions and a commitment to delivering excellence in every project. Founded in 2021, Virlan Chainworks, has spearheaded diverse initiatives across the blockchain, mobile application, and web development domains.

Key Projects:

1. **Satoshi Terminal: Blockchain Development Terminal Chief Product Officer**
   - As the Acting Chief Product Officer (CPO), contributed to the development roadmap for Satoshi Terminal
   - Developed a proof of concept application in Python using the OpenBB SDK, showcasing technical prowess and innovation.
   - Jenkins used for CI/CD deployment
   - Integrated REST API with financial services
2. **Funge: Social Media NFT Website**
   - Headed a Fullstack Developer team in the creation of a social media NFT platform, including MongoDB database design and Smart Contract using Solidity and Javascript for development listed on OpenSea.
   - Developed ERC1155 for NFT sales in OpenSea
   - Jenkins used for CI/CD deployment
3. **WineTrust: Fine Wine Inventory System**
   - Designed an end-to-end solution for WineTrust's inventory system, integrating React and Javascript for the user interface and PostgreSQL for robust data management.
   - Developed a smart contract facilitating the minting of inventory assets into OpenSea with ERC1155
   - Jenkins used for CI/CD deployment
4. **Parabellum**
   - Developed an application that users can trade token assets on Uniswap DeFi using V2 protocol with Javascript
   - Developed decentralized application for the Cosmos network for NFT marketplace with Javascript
   - Integrated REST APIs with Uniswap and Alchemy

- Jenkins used for CI/CD deployment

5. **Articify - Fullstack Engineer and AI**
   - Implement AI chat bot to provide customer service like appointment and in office inquiries using AI libraries from OpenAI, and Python.
   - Setup Twilio and Google Calendar API for the telephony system
   - Jenkins used for CI/CD deployment
   - Integrated REST APIs with Google APIs (Google Calendar)

6. **LagosPM**
   - Integrated ChatGpt into the construction management system elastic search giving it capability of providing a natural response to their current queries.
   - Integrated REST APIs with OpenAI ChatGpt

7. **KnowledgeHut: Blockchain Development Training**
   - Produced engaging two-hour video content on Blockchain development, covering Smart Contracts and Decentralized Applications.
   - Crafted a comprehensive set of over 500 test questions for quizzes and final assessments to enhance the certification program.

8. **Eudenix: Bitcoin and Blockchain Fundamentals**
   - Developed in-depth video training modules covering Bitcoin and Blockchain Fundamentals, contributing to Eudenix's educational resources.

9. **Fitspace: Health and Fitness Mobile Application**
   - Led the development of a cutting-edge personal training and fitness mobile application using React Native/Javascript
   - Designed the MongoDB data schema and orchestrated server-side logic using ExpressJS, ensuring seamless application features.
   - Implemented ETL data pipeline to migrate their current users from manual paper records and into MongoDB using MongoDB Compass.
   - Jenkins used for CI/CD deployment
   - Integrated REST APIs with Stripe and Paypal

10. **JobDeal: Online Job Platform Chief Technology Officer**
    - Provided leadership as the Acting CTO, guiding a team of two developers in crafting the beta version of JobDeal.
    - Architected the ReactJS/Javascript web application and structured the PostgreSQL database schema for efficient and scalable online job management.
    - Jenkins used for CI/CD deployment

11. **ConnecTech: Web Development and Javascript, HTML, CSS Introduction Instructor**

- Delivered introductory software programming classes to adult learners as part of the Government of Bermuda's initiative to enhance IT knowledge across the nation.
- Instructed middle school and high school students on software programming fundamentals for their code camp engagements.

My role at Virlan Chainworks reflects an adept ability to conceptualize, design, and implement solutions across diverse industries. From blockchain education to mobile applications and online platforms, your expertise encompasses the full spectrum of software development. Virlan Chainworks continues to be a trailblazer in delivering impactful and technologically advanced solutions.

 Shyft Network, Barbados, Sep 2018 - Sep 2020
Fullstack MERN Developer - Blockchain
- Spearheaded the development of ERC20, ERC720, and ERC1155 NFT smart contracts, showcasing expertise in blockchain technologies. Used both Solidity, Truffle and Javascript
- Successfully integrated decentralized web applications with leading wallets like Metamask and Keplr, ensuring seamless user interactions.
- Engaged with prominent DeFi protocols, including Uniswap Router V2, 0X Exchange, ZapperInOut, and 1InchProtocol, contributing to the dynamic landscape of decentralized finance.
- Jenkins used for CI/CD deployment

 B.C Ferries, Victoria, British Columbia Sep 2018
Business Intelligence Jasper Reports Developer
- Engineered custom and standard reports to serve the entire fleet using Jasper Reports.
- Formulated materialized views within the Oracle database to enhance reporting efficiency.
- Streamlined SQL queries for both ad hoc and standard reports, optimizing overall database performance for Big Data usage.
- Created ETL and ELT data pipelines to migrate data over to a data warehouse for offline reports with Oracle database using Oracle Data Integrator (ODI)

Fujitsu Victoria, British Columbia March 2015 – March-2018

Senior Technical Consultant

- Spearheaded the development of tailored reports and International Standard reports using JasperReports.
- Created data ETL and ELT pipelines to migrate data from remote databases of school districts from different Municipalities in B.C using Microsoft SQL Server Integration Services (SSIS)

Solvera Solutions, Regina, Saskatchewan Sep 2012 - Feb 2015

Senior Technical Consultant

- Spearheaded the development of corporate applications, leveraging Javascript and SAPUI5 SDK for seamless compatibility on Android and iOS platforms.
- Played a key role in enhancing the technological landscape, contributing to the company's innovative solutions during the specified tenure.
- Implemented server side functionalities that provided SAPUI5 mobile apps access to SAP data through SAPs ABAP BAPIs.

Research in Motion Blackberry, Atlanta, Georgia Oct 2011 - Sept 2012

Android Mobile Developer

- Created a mobile application for Sales Executives using Javascript and the Blackberry CLI.
- Designed and implemented a front desk check-in application to enhance head office security for the Blackberry Playbook.

e-Supply Link, Inc. Traverse City, MI June 2011

Java/J2ME Developer

- Contributed to the development of handheld scanners designed for warehouse inventory systems, leveraging Java and J2ME SDK to enhance efficiency and functionality.
- Developed server side functionalities that accessed the factory inventory database.

Department of Health Service, Gov. Florida December 2010
Intersystems Cache Developer

- Spearheaded the development of a web application dedicated to managing children's vaccination history, contributing to enhanced healthcare record-keeping and accessibility.
- Played a pivotal role in the response to the R1N1 outbreak by developing a critical report, providing valuable insights and support during the public health crisis.
- Used Ensemble to create ETL data pipelines from active databases from CDC offices and into local reporting databases.

Quest Diagnostics, Sacramento California Jun 2007 - Nov 2009
Intersystems Cache Developer

- Created comprehensive reports catering to the needs of all Quest Diagnostics facilities.
- Provided extensive support for the enterprise database, ensuring seamless functionality and efficiency.
- Created data pipelines ETL to migrate data for offline reportings with Ensemble

Children Health Services Gov. of California Sacramento May 2007
Intersystems Cache Developer

- Developed and upheld the MUMPS system for children's clinical surveys, ensuring the efficient collection and management of crucial health data using Fileman.
- Produced comprehensive doctor's reports derived from children's therapy sessions, contributing to the healthcare records and facilitating informed decision-making for medical professionals.

Golden 1 Credit Union, Sacramento, California Jan 2004 - May 2007
Intersystems Cache Developer

- Provided integral support for Cache MUMPS, the server-side retail banking database, operating on IBM mainframes.
- Collaborated in maintaining and optimizing database functionalities to ensure seamless retail banking operations.

DST Output, Folsom, California Nov 1999 - Dec 2003
Lead Java Developer

- Spearheaded the development of tailored internal corporate applications catering to diverse departmental requirements using Java and J2EE in conjunction with Oracle databases.
- Pioneered the creation of the Manufacturing Application Reporting System (M.A.R.S), an internal reporting application, leveraging Java SWING technology.
- Created ETL data pipelines using Oracle Warehouse Builder (OWB) to migrate data from manufacturing databases to a local database instance for reporting that's used by the M.A.R.S application.

MLS, Toronto, ON, Canada 1998
Junior Software Engineer ANSI C

- Contributed to the development and maintenance of the retail banking application utilized by Credit Unions, utilizing ANSI C.
- Developed PLSQL scripts for Oracle databases, handling backend job functionalities.
- Utilized SQL for query generation and the construction of reference tables