MarcJamal N. LaGrande

Project Management | Full Stack Engineering | Product Ownership

Telephone: (678) 704-5193 | Email: mjnlagrande@gmail.com
Atlanta, GA 30312

CAREER PROFILE

A meticulous, results-focused full stack engineer working at the cutting-edge of project management, strategic planning and technical leadership to design and execute innovative solutions within the Blockchain space. Specialize at scoping and deploying ground-breaking products and tools that streamline performance while driving revenue growth. Superior communication and interpersonal skills facilitate strong cross-functional collaboration, and promote a technical environment that is conducive to engagement, target-achievement and continuous improvement.

KEY SKILLS & STRENGTHS

Professional/Management:	Full Stack Engineering; Blockchain Expertise; Project Management; Research and Analysis (Data-driven Decisions); Strategic Planning and Execution; Organization and Prioritization; Innovative Problem Solving; Detail and Deadline-Oriented; Digital Asset and Product Management; Testnet Deployment; Process Optimization
Programming Languages:	Solidity; JavaScript; VHDL; C++; MATLAB; Java; HTML5; PHP; Python
Computer & OS:	Microsoft Windows XP/Vista/7/8/10; Mac OS X Lion; Ubuntu Linux; Chrome OS
Software:	Minitab; R Studio; Quartus II; NI LabView; AutoCAD; AWS Programming; SQL FL Studio
Hardware:	MBED Microcontroller; Function Generator; Multimeter; Soldering Iron; Oscilloscope; Logic Analyzer

CAREER HISTORY

Senior Engineer (Blockchain Technology Infrastructure and Digital Asset Management) **08/2020 – Present**
MOQA Technologies **Atlanta, GA**

Complex, multifaceted role encompassing technical, project management and problem-solving functions in support of a cutting-edge company specializing in Ethereum and Helium Network blockchain infrastructure

- Spearhead both technical and business operations, promoting a culture of high-quality programming, collaboration and continuous improvement
- Scoped and executed a complex project to employ 3Commas autonomous trading bots to drive a 30% monthly increase in digital asset portfolio value; programming moving average and RSI-focused trading algorithm strategies in Python prior to execution in the 3Commas API
- Analyzed live market data and trends to identify the traditional indicators with the potential to optimize the trade strategy
- Broke new ground by incorporating 60+ Bobcat Helium miners to expand the Helium network throughout the lower metro Atlanta area; creating a network based on CloudRF line of sight calculations
- Created self-sustaining enclosures for the Helium miners to facilitate optimal placement; performing calculations using CloudRF software to drive a 500% increase in profit (compared to indoor placement)
- Apply a data-driven approach to business strategy development, informed by targeted market research and analysis – building workflows around goals and commercial objectives
- Maintain currency of knowledge regarding industry and technical developments; capitalizing on opportunities to evolve internal standards and best practices, while optimizing efficiency and bottom line revenue
- Define key business objectives, and align technology with them, ensuring class-leading performance and streamlined performance

Manufacturing Operations, Process Development, and R&D Engineering Intern **05/2017 – 08/2019**
Boston Scientific (Biomedical Technology) **Arden Hills, MN & Spencer, IN**

- Drove a 20% increase in production yield for a leadless cardiac pacemaker device through the development and deployment of an innovative validation process; employing the DMAIC quality strategy to streamline procedures, and identify/mitigate bottleneck points in manufacturing operations

- Interrogated circuit diagrams to develop and execute testing plans to identify design flaws, while developing in-depth knowledge of visual analysers
- Employed clean, efficient coding in programming third and fourth algorithm revision response models in MATLAB – identifying data loss during the sampling process:
    - Analyzed algorithm efficiencies by manipulating millions of data points from animal trial electrocardiogram (ECG) data
    - Determined and reported that the model was approximately 85% accurate when detecting heart malfunctions
- Served as the driving force begin a multidisciplinary engineering team that delivered a major project to increase part production from 0% to 78% yield by identifying failure causes and proposing solutions
- Embedded key electrical engineering principles in analytics lab experiments to identify circuit faults and improvements
- Increased device production by 400% through the design, creation and implementation of a fixture for a new product line
- Led a portfolio of Gage R&R studies to test for the variance within processes; utilizing Minitab to complete the statistical analysis for a glue characterization study that determined the stability and repeatability of the manufacturing process – highlighting proposals to senior leadership

NOTABLE PROJECTS

Senior Designer
Wavecheq – Autonomous Investment Software

- Provided incisive leadership to a multidisciplinary engineering team (Compe E and EE) in the creation of a ground-breaking financial software tool with the capacity to invest autonomously:
    - Scoped project parameters and translated them into a targeted proposal/plan underpinned with clear deliverables, timeframes, milestones and standards
    - Employed AWS and Python to send API data into a trading algorithm built around various technical indicators to inform high-success probability trading
    - Delegated workflows in accordance with the skills of individual team members, and tracked progress on an ongoing basis to ensure milestone attainment
    - Made calls to action trading strategy changes after running
    - Created algorithms using API calls to export Json files for further analysis in Python, before condensing the Python analysis into buy or sell signals that were pushed to an online trading API using Amazon Web Services

Independent Project Study
Solidity Exploration

- Utilized the Remix Solidity IDE to deploy contracts on various Ethereum testnets (Rinkeby, Kovan, Ropsten)
- Deployed an ERC20 Token (created using OpenZeppelin and Brownie documentation to streamline the process) to the Rinkby Testnet
- Created a smart contract lottery application in which users could enter the lottery, with a winner being selected via web3.py in Visual Studio Code

EDUCATION

Master of Business Administration **Expected 12/2022**
Master of Data Analytics **2021**
Georgia State University **Atlanta, GA**
Related Coursework:

- *Partnered with Peter Pan Peanutbutter in the analysis of 2020 sales data in Python Jupyter notebooks to identify promotions that were effective in increasing sales market share*
- *Used MySQL to build an entity relational database for the conference earning call script (CECS) using normalization techniques and web data scraping*

Bachelor of Science in Electrical Engineering **2020**
Georgia Institute of Technology **Atlanta, GA**
Awards: *Gates Millennium Scholar, Alonzo F. Herndon Leadership Fellowship*

CERTIFICATIONS & ADDITIONAL QUALIFICATIONS

Lean 6 Sigma Black Belt Certification **2021**

Solidity, Blockchain, and Smart Contract Course – Beginner to Expert Python
Key Topics: *Contract Deployment, NFTs, Full Stack Development (Front and Back End Implementation)*