

# JESSICA CLAIRE

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## Executive Summary

Python developer with 5+ years providing strategic thinking to solve challenging business solutions. Strong technical & data detailed oriented personality committed to identifying and leveraging opportunities for professional growth in medical diagnostic methodologies . Critical emphasis on achieving business application development. Motivated leader possessing excellent listening, verbal and written professional communications skills to meet objectives. Outstanding inter-personalized skill set demonstrated in both team development collaboration and in autonomous environments in a fast evolving technological workspace.

## Professional Skill Set

- Python Django, Flask, JavaScript, HTML, CSS JSON, XML, ORM
- VS Code, Visual Studio, Jupyter Notebooks
- Databases, SQL, Oracle, PostgreSQL, SQLiteSQL, NoSQL
- Unix/Linux, BASH, MS DOS,.NET/ADO
- Proficiency in C#, C/C++, Java, Ruby
- Azure, AWS Cloud EC2 technologies, Docker
- Microsoft Suite, Excel, Word,PowerPoint, SharePoint
- Agile/Scrum/Kaban development skills
- System Development Life Cycle SDLC
- Git/Github
- Exceptional analytical / problem solving
- Excellent Professional Verbal and Written Communication Skills
- Expert Negotiating Skills
- ETL
- Tableau
- Machine Learning methodologies. Linear Regression, Logistical Regression, Decision Trees, Random Forrest, Naive-Bayes, Clustering (K-Means, Gradient Decent, Neural-Networks, SVM (Support Vector machines), Deep Learning, Sci-kit learn, Tensorflow.

## Professional Experience

### Python Developer, 04/2021 to Current

Novogradac & Co. LLP – New York, NY

- Worked with server-side and front-end technologies and leveraged common design patterns to code dynamic and user-friendly systems.
- Developed company-wide technical strategy plans for Python-based assets, overseeing development, coding, debugging and deployments..
- Managed project parameters, scheduled development milestones and set engineering goals with ML/AI and Quant teams.
- Introduced cloud-based technologies into Python development to expand on-premise deployment options with AWS and Azure Chatbots.
- Translated AI NLP requested project architecture into scalable designs for Bank Examiners and auditors confirming alignment with related business goals.
- Improved and corrected existing software and system applications using key performance metrics.
- Developed software for NLP AI systems, coding solutions for both new digital transformation applications to automate internal processes.
- Applied inbedded security measures into systems development, supporting final products' resistance to intrusion and exploitation.
- Coordinated testing and validation procedures through software development lifecycle.
- Managed junior developers by delivering consistent coaching and guidnace feedback.
- Utilized established design patterns to expedite novel software creation and support consistent performance results.
- Programmed applications and tools using object-oriented languages with goals of code abstraction, stability and reuse.
- Analyzed code and corrected errors to optimize output.
- Updated software upon release of vendor patches to mitigate security vulnerabilities in libraries.
- Participated in intra-organizational staff meetings to coalesce company-wide efforts around meeting prescribed business goals and addressing Federal Reserve Bank directives.
- Worked closely with QA Engineers, Machine Learning AI, Data Scientists, Financial Engineers and Quants to understand limitations, develop capabilities and resolve software problems.
- Conferred with project managers and other stakeholders to fully understand software design specifications and plan optimal development approaches.
- Reviewed project requirements using Agile Scrum methodologies to identify customer expectations and to manage resources needed to meet goals.
- Collaborated with support team to assist client stakeholders with emergent technical issues and develop effective solutions.
- Design, create APIs and data models for AI/ML model inventory, model repository and model registry. Responsible for unit/ functional testing, CI/CD.

### Python Developer Independent Contractor, 03/2018 to 04/2022

Novogradac & Co. LLP – Southfield, MI

- Worked with server-side and front-end technologies and leveraged common design patterns to code dynamic and user-friendly systems.
- Leveraged open communication, collective decision-making and thorough reviews to create performant and scalable systems.
- Implemented new API routes, architected new ORM structures and refactored code to boost application performance.Experience with a relational database PostgreSQL
- Experience with AWS configuration, setup and teardown
- Hands-on experience in Jira and daily standup meetings.
- Experienced usage of Git and Github repro maintenance.

• Performed Gathering and evaluating user requirements, in collaboration with product managers, stakeholders and software engineers.

• Performed extensive n the coding, testing, implementation, and documentation of front-end development using django framework, JS, CSS, HTML5.

• Maintains and upgrades interface functionalities for specific requirements, and actively participates in code and project review as needed.

• Participates in the business assessment and requirements analysis processes for the front-end development and design of graphical user interfaces.

• Lead efforts in technical design, coding, testing, and implementation phases to meet business needs, solve business problems, and add value to the bottom line.

• Leverages modern frameworks ML/AI library techniques to develop clean, efficient, and reusable code.

• Managing Security Risk- Assessing and effectively managing all the risks associated with secure AI objectives and activities to ensure they adhere to and support the Enterprise Network.

### Python Developer , 04/2007 to 03/2018

BT - Credit-Suisse Contract – City, STATE

- Designed and implemented Python Django websites for analytical solutions for data organization and reporting on financial infrastructure data platforms across diverse global business lines.
- Devised rapid code for add-hoc business requirements.
- Developed and consumed Web based REST, SOAP APIs
- Knowledge of GraphQL Web API framework
- Experienced practitioner in debugging code in highly problematic assemblies and the ability to create new improved solutions to minimize adverse impact to production environment from inception to deployment and UAT testing.
- Translated Business logic and technical requirements.
- Code Refactoring and Reconciliation.
- Proficient in Statistical data programming.
- Implemented object-relational mapping ORM methodologies.
- Python script generation of Market Data and Exchange services.
- Leverage various desktop and web based data sources for extensive data cleanse and import to PostgreSQL databases.
- Automated script testing and integration.
- Analyzed and conducted automated supplier billing audits
- Visualization Dashboard of Financial reports to upper and senior management.
- Skilled in Unix/Linux BASH,Ubuntu and Win-DOS based platforms.
- Databases, SQL, NoSQL, PostgreSQL, SQLite,
- Familiar in Azure & AWS Cloud based technologies.
- Developed tools in Pandas, Numpy, SciPy, Matplotlib.
- Knowledge of Web scraping tools ie. Beautiful Soup
- Experience distributed Git version control repositories.
- Familiarity with Big Data platforms and ecosystems.
- Coordinated system installations, testing and code corrections.
- Developed custom application solutions for business director
- Designed software scripts using TANGO that proved user-friendly and simplified overall management.
- Tested all software prior to applications going live to alleviate bugs and troubleshoot issues.
- Participated in team meetings with Governess Team and stakeholders and provided input on expected deadlines, designs and enhancements.
- Created proof-of-concept prototype web based applications for demonstration and evaluation purposes.
- Analyzed system requirements and used documented approaches to implement and document development tasks.
- Kept project manager informed of milestone updates and provided a weekly detailed project report.
- Communicated highly technical concepts using easily understood terminology.
- Developed scripts to communicate with back-end applications in order to provide updated information.
- Designed software configuration to meet website system hosting requirements.
- Tested Database for bugs and to determine weaknesses.
- Documented all technical specifications and testing methods for for future reference and use in other assignments.
- Introduced Machine Learning modelling tools Scikit learn to improve audit process to realize over \$700,000 in annually savings.

### Trading Technology, 06/2002 to 04/2007

BT - Credit Suisse Contract – City, STATE

- Responsible for all carrier based project implementations, coordination and operational oversight.
- Expert practitioner in resolving Day Two Events in Highly problematic Layer1 areas and the ability to create new improved solutions.
- Wide Area and Metro Area Network Datacentre Supports Mission Critical Market Data and Exchange services.
- Low-Latency and Hi-Frequency Trading Platforms Global Dealing and External Messaging Systems High Speed Digital Transport Carrier Platforms Voice PBX and BT Trading Turret Dealing Systems, Carrier Inventory Audit and Billing Mediations Achievements Design and Rollout of PrimeTrade Global Dealing Equity Trading Platform.
- Designed and Implemented Hi Speed DWDM Ultra-Low Latency Trading Platforms.
- Level 3 support of Mission Critical Market Data and Exchange platforms.
- Procurement and support of Turret Trader Voice.
- Tracking incidents to Provide Day2 operational guidance with a reduction of 20% less incidents.
- Project Managed Business Power Maintenance and Contingency planning events.
- Market Data & Exchanges - Managed roll-out \$100 Million Global dealing trading platforms and Derivative Exchanges for Equity Sales, FI, FX commodity trading desks.
- Low Latency Trading - Managed the deployment of with Hi-Speed platforms for market arbitrage strategies.
- LAN/MAN - Managed and deployed Local Area Networks including Hi Speed fiber MAN backbones and augments for datacenters.
- Datacenter Projects - Managed with hands-on implementation with scheduled checkout UAT client testing of new network infrastructure.
- Trader Voice - Trading floor turret networks and Market Data applications.

## Education and Professional Training

Bachelor's Degree: Major: Computer Science, Minor: Mathematics

CITY UNIVERSITY OF NEW YORK SCHOOL OF ENGINEERING

### Masters Certificate Program Software Developer

Setfocus

### Certificate in Financial Mathematics

NEW YORK INSTITUTE of FINANCE

### Quantitative Mathematics Primer

CQF

## References available upon request