

# King Lang

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## SUMMARY

Motivated Quantitative Analyst committed to blending analytical skills with innovative trading strategies. Three years of experience in algorithmic development and data analysis fuel a confident approach towards solving complex financial problems. Collaboration drives success; empowering peers enhances performance across the board. Emphasizing adaptable problem-solving approaches leads to meaningful impacts within trading operations. Passionate about leveraging low-level programming skills, particularly in C++, to create efficient algorithms, while continuously striving for personal and professional growth.

## EXPERIENCE

### Quantitative Analyst

June 2024 - Present

Tech Innovations Group

Chicago, IL

Responsible for developing advanced trading algorithms aimed at enhancing market efficiency on a daily basis. Key contributor to projects analyzing market conditions, facilitating deeper insights into trading strategies. Building collaborative relationships with team members fosters creative problem-solving techniques. Consistently engages in backtesting new models to assure effective trading methodologies are implemented.

- Engineered and deployed C++ trading algorithms, achieving notable efficiency improvements in daily operations.
- Partnered with diverse teams to analyze and interpret complex market data effectively.
- Executed rigorous backtesting phases for each algorithm, refining strategies based on empirical feedback.

### Junior Quantitative Developer

July 2022 - May 2024

Future Financial Solutions

Chicago, IL

Assisted in creating software tools that enhance trade execution processes. Emphasis placed on collaborating with cross-functional teams allowed impactful solutions to emerge. Increased awareness of quantitative methods through active involvement in development cycles.

- Designed user-friendly applications supporting document workflows across trading sectors.
- Performed detailed analyses producing actionable recommendations based on found data.
- Contributed regularly in team meetings focused on innovating the functioning of trading processes.

### Internship Project

September 2021 - June 2022

University Projects

Springfield, IL

Engaged in extensive research project aimed at simulating effective trading strategies. This experience helped gain a firm understanding of both theoretical concepts and their practical application. Collaborated closely with classmates to innovate beyond traditional boundaries.

- Developed simulation models utilizing C++, demonstrating adeptness with low-level programming.
- Implemented various data structures adeptly managing multiple datasets throughout the simulated environment.
- Analyzed project reflections collectively to refine and adapt the outcome toward proficient self-improvements.

## LEADERSHIP & AWARDS

- Top Emerging Leader Award for Budget Management (2023)
- Departmental Recognition for Innovative Work in Trading Strategy Analysis (2025)

## EDUCATION

### Bachelor's Degree in Computer Science

2022

University of Illinois GPA: 3.7

Champaign, IL

**Coursework:** Data Structures, Algorithms, Financial Modeling, System Design

## CERTIFICATIONS

- Certified Financial Analyst Level I 📅 2025
- C++ Certified Associate Programmer 📅 2026

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Java
- **Modeling Software:** MATLAB, R, SAS
- **Data Analysis Tools:** Excel, Tableau, Power BI
- **Database Technologies:** MySQL, MongoDB, Oracle
- **Version Control Systems:** Git, SVN, Mercurial

- **Development Frameworks:** Django, Flask, Spring
- **Statistical Analysis Software:** Stata, SPSS, PyTorch
- **Trading Platforms:** MetaTrader, NinjaTrader, ThinkOrSwim
- **Cloud Computing:** AWS, Azure, Google Cloud
- **Machine Learning Libraries:** TensorFlow, Scikit-learn, Keras

**SKILLS**

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- C++ Programming
- Team Collaboration
- Project Management
- Software Development
- Algorithm Development
- Problem Solving
- Simulation Techniques
- Risk Assessment
- Data Analysis
- Market Analysis
- Python Programming
- Documentation
- Financial Modeling
- Critical Thinking
- Statistical Modelling
- Performance Monitoring

**PROFESSIONAL AFFILIATIONS**

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- Member of Quantitative Finance Society, fostering collaboration among future financial analysts.
- Active participant in local Coding for Good initiatives, helping underrepresented students learn coding.

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST