

# Yupo Niu - Full Stack Developer & Data Analyst

📍 Calgary, Canada | 🌐 Open to Remote / On-site  
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## Professional Summary

Full stack developer with 17+ years of experience specializing in enterprise-level application development and data analytics. **Using Python for data analysis and backend development since 2016**, with extensive experience in Java and React. Proven track record building scalable microservices architecture, high-concurrency transaction systems, and transforming data into actionable insights.

- **Full Stack Development:** Built and maintained enterprise applications from database to user interface, utilizing Java backend with React/JavaScript frontends.
- **Microservices Architecture:** Led microservices migration, optimized CI/CD pipelines, improved deployment efficiency by 50%.
- **High-Performance Systems:** Designed core risk control, e-commerce, and auction platforms handling 5K+ daily evaluations & 10K+ concurrent transactions.
- **Data & AI:** Proficient in **Python (8+ years)** for data analysis with Pandas, NumPy, and visualization tools, delivering business intelligence insights.

## Technical Skills

### Backend Development

- Java 8/11, Spring Boot, Spring Cloud (Netflix/Alibaba)
- **Python backend development (8+ years experience)**
- Microservices architecture with Nacos/API Gateway/Sentinel
- Distributed transactions (Seata)
- Database: MySQL, Redis, MongoDB

### Frontend Development

- React, JavaScript/ES6+, HTML5/CSS3
- Responsive web design, UI/UX principles
- jQuery, Bootstrap, TailwindCSS

## Data Analysis & Visualization

- Python (8+ years experience with Pandas, NumPy, Scikit-learn)
- Power BI, Tableau
- Data cleaning & preprocessing
- SQL query optimization
- Predictive analysis

## Cloud & DevOps

- Docker, Kubernetes, Helm
- CI/CD (Jenkins, GitLab)
- Terraform, ArgoCD
- Cloud platforms: Alibaba Cloud, AWS
- System monitoring: Arthus, SkyWalking, Pinpoint

## Other Skills

- Messaging systems: RabbitMQ, RocketMQ, Kafka
- Linux/Bash scripting
- Languages: Chinese (Native), English (Fluent)

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## Professional Experience

### Edianyun Inc. (HKEX: 02416) | Senior Java Backend Developer

 Beijing, China | Mar 2016 – Apr 2024

**Company Overview:** Edianyun is a publicly traded company and leading IT infrastructure service provider in China, specializing in IT equipment leasing, management, and maintenance for enterprises.

### Key Projects & Achievements

- **Risk Control System:**
  - Designed and implemented a rule-based risk evaluation engine handling 5K+ daily risk assessments
  - Improved automation rate by 40% through integrating third-party credit APIs
  - Reduced manual interventions while maintaining risk control quality
- **IT Equipment Auction Platform ([pai.edianyun.com](http://pai.edianyun.com)):**
  - Architected high-concurrency bidding and flash sale system with 10K+ concurrent users

- Optimized performance using RocketMQ asynchronous messaging and Redis caching
- Ensured seamless user experience during peak traffic periods
- Integrated with financial and e-commerce systems via microservices architecture
- **Enterprise E-Commerce System:**
  - Improved order processing system handling 10K+ daily transactions
  - Optimized API response time by 40% through query tuning and caching strategies
  - Built comprehensive admin dashboard for real-time sales monitoring
- **Enterprise Access Control System:**
  - Designed and implemented RBAC + Position-Based Access Control for 1K+ users
  - Automated employee onboarding/offboarding through RocketMQ & HR system integration
  - Implemented Redis caching to improve permission lookup efficiency

## DevOps & Infrastructure Improvements

- Led migration from traditional VM architecture to Kubernetes-based cloud-native infrastructure
- Built automated CI/CD pipelines with Jenkins and GitLab, reducing deployment time by 50%
- Implemented blue-green deployments for zero-downtime releases
- Set up comprehensive monitoring using Arthus, SkyWalking, and Pinpoint

## Data Analysis Initiatives

- Designed business intelligence dashboards **using Python and visualization libraries** for management to track KPIs in real-time
- **Leveraged Python (Pandas, NumPy)** to analyze transaction data, identifying bottlenecks and increasing conversion rate by 22%
- Built customer scoring models **with Python and Scikit-learn** by analyzing historical data, improving automated approval rate by 40%
- Developed ETL processes **in Python** to unify data from multiple systems

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## Bitmain Technologies | Senior Java Developer

 **Beijing, China | Jun 2014 – Jun 2015**

**Company Overview:** Bitmain is a leading cryptocurrency mining hardware manufacturer and blockchain technology company.

- Developed high-performance Bitcoin trading API, optimizing transaction confirmation time by 40%
- Designed UTXO-based transaction model for efficient blockchain interactions

- Implemented Redis + MySQL infrastructure for high-throughput transaction processing
  - Collaborated with UI team to create intuitive trading dashboard for cryptocurrency traders
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## Education & Certifications

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### Southern Alberta Institute of Technology (SAIT) | Calgary, Canada

- **Data Analytics** (*Sep 2024 - Apr 2025*)
  - Specializing in data analysis methodologies, business intelligence tools, and machine learning fundamentals
  - Key coursework: Advanced SQL, Database Optimization, Data Visualization, Statistical Analysis
  - Upcoming courses in Integrated AI (2025-2026)

## Certifications

- **Cisco:** Data Analytics Essentials (Mar 2025), Creating Compelling Reports (Feb 2025), Python Essentials 1 (Feb 2025)
  - **Microsoft:** Modify data with T-SQL, Transact-SQL Querying, Microsoft Data Analytics, Power BI Reports
  - **React Skills:** Get started with React, Work with state and events in React, Working with data and properties in React
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## Projects & Portfolio

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- **Canada Unemployment Dashboard:** Interactive data visualization analyzing unemployment trends in Canada **using Python for data processing and React** for visualization. ([Demo](#))
  - **NeuroCraft:** Educational website showcasing machine learning concepts and implementations **built with Python backend and React frontend**. ([Demo](#))
  - **Python Data Pipeline:** Developed automated ETL workflows using Python to process and transform enterprise data (Internal project at Edianyun, 2018-2020)
  - **Personal Portfolio Website:** Responsive portfolio built with React and TailwindCSS. ([Demo](#))
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## Additional Activities

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- **Toastmasters:** Level 2 member (joined Sep 2024), actively improving public speaking and leadership skills
  - **International Speech Contest:** Participated in Toastmasters International Contest (Mar 2025)
  - **Open Source Contribution:** Contributing to open source projects in data visualization and React components
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# Language Proficiency

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- **Chinese:** Native proficiency
  - **English:** Professional working proficiency
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