WANG Xuxin (Benjamin)

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TECHNICAL SKILLS

Languages: Python, Java, Javascript, Typescript, Golang, SQL, R, Web Programming (HTML5, CSS3) **Technologies:** Redis, MySQL, MongoDB, Kafka, Airflow, Apache Spark, AWS, dbt, React.js, Node.js, Firebase

WORK EXPERIENCE

Backend Software Engineering Intern (Aug 2024 - Jul 2025)

CLERKIE.IO | San Francisco Bay Area | Silicon Valley Series A Fintech Startup; Al-powered financial automation platform

- Built and deployed a **mission-critical payment data platform** (Debt Recovery CRM + Payment Portal) with Node.js and MongoDB, enabling agencies to manage **\$1B+** in debt portfolios and supporting secure international transactions.
- Improved job success rate from 80% to 99.9% by implementing retries with exponential backoff, and dead-letter queues in Redis/BullMQ.
- Implemented compliance automation (statute of limitations logic) to ensure regulatory adherence for enterprise clients including Verizon and Wells Fargo.
- Engineered secure ACH wire transfer pipelines with JPMorgan Chase strengthening data integrity, timeliness, and stability in large-scale payment flows.
- Optimized large-scale data processing workflows, cutting report generation time by 73% and scaling systems to tens
 of millions of transactions.
- Integrated enterprise-grade payment gateways (Payscout, Repay, etc.), boosting on-time payments by 31% and expanding revenue collection.

Data Analytics Engineering Intern (Jan 2024 - Jun 2024)

SHOPBACK | Singapore | Multinational e-Commerce Cooperation; Leading cashback rewards platform in Asia-Pacific

- Designed and managed end-to-end ETL pipelines using Apache Airflow, Spark, and dbt, MySQL, improving reliability and reducing manual intervention by 40%.
- Optimized payment related data models with dbt and SparkSQL, improving query performance by 30% and boosting analytics accuracy.
- Developed first Geospatial BI system using Python, MySQL, and ML algorithms, enabling zonal-level scaling and improving resource allocation efficiency by 80%.
- Executed zero-downtime migration of 56M+ records, ensuring seamless data integrity and system continuity.

Data Analyst Intern (Aug 2023 - Nov 2023)

QUEST- HIRE A HERO | Singapore | Early stage startup: Request-based mobile platform matching freelancers to businesses

- Increased lead generation 5x by developing automated web-scraping tools with Python and Selenium.
- Automated data visualization pipelines with Pandas, reducing reporting effort by 15+ hours weekly.
- Drove product growth, achieving 140% MAU and 120% DAU increase through data-driven insights.

Undergraduate Teaching Assistant (2023 - 2024)

NATIONAL UNIVERSITY OF SINGAPORE

• Taught programming fundamentals using Python through weekly tutorials with a class of 40 students.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Science (Honors) in Business Analytics, Minor in Data Engineering (Aug 2022 - Nov 2026)

• GPA: 4.63/5 (Honors with Highest Distinction)

STANFORD

Management Science and Engineering (MS&E) (2024 - 2025)

PROJECTS

EduGap (Oct 2024 - Present) Project Link

- Built an Al-powered platform integrating Google Gemini 1.5, LangChain, ChromaDB to support student-teacher interactions.
- Implemented semantic clustering (PCA, DBSCAN) to analyze student queries and highlight common learning gaps.

Geospatial Analysis (May 2024 - Jun 2024) Project Link

- Optimized geospatial coverage using **custom radius algorithms** with **GeographicLib and geopy**, increasing relevant business capture by 30%.
- Developed hybrid custom search strategy using clustering techniques like DBSCAN to optimize API efficiency.
- Built a scalable data pipeline integrating Google Maps & OneMap APIs, processing 5,000+ locations with rate limiting and deduplication, improving data accuracy by 40%.