

# Xu Bowen (Leo)

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## EDUCATION

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### National University of Singapore (NUS)

- Bachelor of Technology in Software Engineering
- Master of Science in Quantitative Finance

## WORK EXPERIENCE

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### Cargobase

Nov 2023 - Current

#### Software engineer (Backend)

- **Stack:** Python, Django, Mysql, Restful API, Aws, Docker, Redis, Javascript.
- **Streamlined Endpoints for Product V2:** Refactored and streamlined backend endpoints to ensure compatibility with the product V2, enhancing system efficiency and frontend interaction.
- **Core Module Development for TMS Shift:** Developed key modules, including File Import, Guest Invite, Invoice Form, and Order Consolidation, establishing essential functionality to support the product's strategic shift toward a Transportation Management System (TMS)
- **Improved Git Flow for Code Consistency:** Refined a more effective Git flow that allowed for smoother merges, preventing code divergences between branches and quicker issue resolution, resulting in a ~20% reduction in code conflicts.
- **Build Project Architecture:** Designed a low-coupling, high-cohesion project structure, facilitating easy feature scaling, reducing code complexity, and lowering maintenance costs.
- **Real-Time Shipment Tracking Integration:** Integrated transportation visibility service provider(Portcast) for real-time geolocation tracking, increasing user engagement and customer satisfaction with live shipment updates.
- **Accelerated Deployment Pipeline:** Reduced pipeline deployment time by ~30 to 50%, accelerating development cycles and deployment speed, boosting productivity.
- **Enhanced Data Retrieval with Redis:** Integrated Redis as a caching layer within our product, enhancing data retrieval speed and reducing load on primary databases to support faster, more responsive user interactions.

## Unravel Carbon

May 2022 - Sep 2023

Software engineer (Backend)

- **Stack:** Python, Flask, MongoDB, GraphQL, Aws S3 and lambda.
- **Data-Centric Feature Development:** Designed and implemented data-centric functionalities, including supplier data requests, data input, user invitation and management, and company profile, enabling more granular data management and user insights.
- **Climate Program for Sustainability Goals:** Implemented climate program module that enables customers to leverage emissions reports and set targets, providing data-backed insights for a 15% increase in engagement with sustainability goals.
- **Optimized Data Processing Efficiency:** Reduced data processing times by 50% with optimized MongoDB aggregation, accelerating analytical chart generation and improving real-time reporting capabilities.
- **Data Onboarding with OneSchema Integration:** Integrated OneSchema for seamless data uploads, improving validation accuracy by 30% and reducing onboarding times by 40%, enhancing data quality and user satisfaction.
- **Enhanced Backend-Frontend Communication:** Improved backend and data engine communication with the frontend, reducing latency by 35% and increasing system uptime by 20%, resulting in more reliable data flows.
- **Efficient MongoDB Pipeline Management:** Designed a Python-friendly framework for managing MongoDB aggregation pipelines, reducing pipeline build time by 25% and enhancing data workflow efficiency.

## Grab

Mar 2021 - May 2022

Software engineer (Automation) - [Contract]

- **Stack:** Python, UiPath
- **Designed End-to-End Automation Framework:** Collaborated with cross-functional teams to automate critical business processes, increasing efficiency and reducing manual workload.
- **Requirements Gathering and Documentation:** Led the requirements analysis process, aligning with stakeholders to produce clear, actionable documentation for each automation project.
- **Project Planning and Workflow Design:** Developed comprehensive project plans, including process mapping, risk assessment, and improvement strategies, ensuring streamlined project execution.
- **Managed Project Pipeline:** Oversaw automation projects from inception to deployment, aligning timelines with strategic objectives and consistently meeting deadlines.
- **Process Development and Quality Assurance:** Developed, tested, and maintained automated business processes, achieving measurable improvements in operational efficiency.
- **Deployment and User Adoption:** Successfully deployed automation solutions, providing user training and detailed manuals to support adoption and maximize solution impact.

## Inventivo

Feb 2020 - Mar 2021

### Automation engineer

- Stack: Python, UiPath
- **Client Partnership for Automation Impact:** Collaborated with major clients, including Bank of China and Shiseido, to identify automation opportunities, enhancing operational efficiency and streamlining key workflows.
- **Documentation and Workflow Design:** Created comprehensive workflow documents to support technical assessments and facilitate smooth automation implementation.
- **Full-Cycle Project Management:** Managed the complete automation lifecycle, from process analysis and development to testing, troubleshooting, and user training, ensuring seamless delivery and high adoption rates.
- **Responsive Process Optimization:** Proactively addressed change requests, delivering timely updates that aligned existing automations with evolving business needs, maximizing process relevance and value.

## Relevant Projects

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### Trillio

Mar 2024 - Aug 2024

### Lead

- **Stack:**
  - Project management
    - Jira, Confluence
  - Product design
    - Figma
  - Front-end
    - Javascript, React
  - Back-end
    - Java springboot, Mysql, Golang, Solidity smart contracts, metamasks.
  - Devops
    - Github, Aws, Docker.
- **Ideated and Developed Crypto Card Platform:** Conceptualized Trillio, a platform that empowers users to spend digital assets securely while enjoying credit card benefits like rewards, cashbacks, and offers.
- **Led the Team:** Found a team of 7 across design, development, and marketing, fostering collaboration and driving the project from concept to implementation.
- **End-to-End Product Development:** Guided the entire product lifecycle, from idea generation to execution, including shaping product outlines, creating user personas, and defining core features to align with user needs.
- **User-Centric Design:** Designed the user experience to prioritize security, usability, and rewards for crypto users, effectively bridging digital assets with traditional credit card conveniences.
- **Technical Documentation and Planning:** Authored comprehensive technical documentation, outlining platform architecture, feature requirements, to support scalable and flexible operations.