

Rui (Ray) Pan

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TECHNICAL SKILLS

- **Programming Languages:** JavaScript (TypeScript), Java, Python, C#, Golang, Swift, C++, C
- **Frameworks & Tools:** Angular, React, Vue, React Native, Pandas, NumPy, Spring Boot, ASP.NET, Hyperledger Fabric, RxJS, Power BI, Figma, Postman, JMeter, Git
- **Cloud & DevOps:** Docker, Kubernetes, Azure (App Service, App Monitor, MSAL, API Management, Blob Storage, AKS, Data Factory, SQL Database, Azure Cache for Redis), Azure DevOps, CI/CD pipelines, Nginx
- **Architecture & Methodologies:** Business Process Automation with VBA and Python, Microservices, API-first architecture, event-driven architecture, Agile/Scrum

WORK EXPERIENCE

Senior Software Engineering Analyst | Accenture, Hong Kong Jun. 2025 - Present

- **Metro Public Information System:** Revamped legacy HTML frontend into a responsive Angular web app using RxJS, enabling multi-user async collaboration for real-time emergency information management across metro station audio, screens, and website. Developed and optimized reusable UI components, integrating design tokens to ensure consistency and scalability across platforms. Refactored ASP.NET backend APIs with EF Core, boosting query performance by 50x (from 5s to <50ms) via indexing. Configured CI/CD pipelines with Nginx, implementing HTTPS redirects and CSP headers to meet Qualys security standards, ensuring 99.9% system uptime.

Software Engineering Analyst (Analyst Accelerator Program) | Accenture, Hong Kong Sep. 2023 - Jun. 2025

- **Metro Mobile App:** Optimized SQL Server database performance by resolving indexing and query inefficiencies, reducing processing time for 10M records from 1 day to 2 hours. Designed and implemented a 5-page Power BI dashboard integrated with Azure Data Factory pipeline and Data Lake, delivering financial insights and user behavior analytics to support wealth management and operational decision-making.
- **Metro Social Inclusion Web App:** Revamped an ASP.NET web app with responsive Razor pages, incorporating design tokens and component-based UI/UX improvements, increasing daily active users by 95% during UAT. Reduced API response latency by 30% through optimized backend logic and caching.
- **High-Speed Railway Mobile App:** Developed a WCAG-compliant iOS and Android app using React Native, integrating 60+ Google Analytics tracking features for actionable user insights. Ensured seamless component integration with design specifications, enhancing accessibility and user experience.

Application Development Engineer Intern | Accenture, Netherlands Jun. 2022 - Dec. 2022

- **Blockchain Asset Management System:** Designed a scalable blockchain network using Hyperledger Fabric, developing Golang smart contracts and a RESTful API with Express and Swagger, deployed on Azure Kubernetes Cluster. Streamlined design-to-code workflows by implementing automated Azure DevOps CI/CD pipelines, improving deployment efficiency and system reliability.

Software Developer Intern | China Southern Airlines, Netherlands Oct. 2021 - Dec. 2021

- Developed a Python automation solution using xlwings, Pandas and NumPy to streamline daily logistics Excel reporting, reducing manual operations by 80% and enhancing workflow by dynamically processing shipping lists and tariff tables.

EDUCATION

- **M.Sc. Computer Science** | University of Amsterdam, Netherlands. 2021 - 2023
- **B.Sc. Computer Science** | Macau University of Science and Technology, Macau, China. 2016 - 2020

PUBLICATIONS

- **(First Author, IEEE 2024)** Operating ZKPs on Blockchain: A Performance Analysis. [[website](#)]
- **(First Author, Springer 2021 (SCI))** Kubernetes in IT Administration and Serverless Computing: An Empirical Study and Research Challenges. [[website](#)]

LANGUAGES AND CERTIFICATIONS

- **English:** Proficient (TOEFL: 101) | **Cantonese:** Proficient | **Mandarin:** Native
- [Microsoft Azure Developer Associate](#), [Oracle Fusion Cloud Applications ERP Process Essentials](#)