

# Manu Ihou

## Freelance Software Architect

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## Summary

Software Architect, Solutions Architect, Integration Architect, and Full Stack Developer with more than 10 years of experience in public, private sector organizations, and Enterprise Application Integration.

Experienced in Continuous Integration and building platforms based on automation to ensure the delivery of reusable products to the market. Skilled in implementing and optimizing advanced technologies to enable better and faster product delivery. Specialized in helping organizations modernize legacy systems and ensure successful products.

Consistently meets deadlines and works collaboratively within team environments. Passionate about best practices, clean code, design patterns, and agile methodologies, with active contributions to open-source technologies.

Quick to adapt to new technologies and industry developments while maintaining a logical and analytical approach to problem-solving. Demonstrated ability to build and manage software development teams and lead projects from start to finish.

## Professional Experience

### QuantLedger, Amsterdam — Founder & Chief Architect

*2024 - Present*

Founded and developed QuantLedger, an innovative financial management platform leveraging modern web technologies to revolutionize financial operations for entrepreneurs and freelancers.

#### Key Achievements & Technologies:

- Architected a modern web application using TypeScript, React, and Next.js with server-side rendering
- Implemented responsive and accessible UI components using Tailwind CSS and shadcn/ui
- Built real-time data visualization dashboards using D3.js and Recharts
- Developed a robust state management system using Redux Toolkit and React Query
- Created a performant API layer using tRPC with end-to-end type safety
- Implemented modern authentication using NextAuth.js with multi-factor authentication
- Designed and built reusable component library using Storybook
- Achieved 100% test coverage using Jest, React Testing Library, and Cypress

## Technical Stack:

- **Frontend:** React 18, TypeScript, Next.js 14, Tailwind CSS
- **State Management:** Redux Toolkit, React Query, Zustand
- **Component Libraries:** shadcn/ui, Radix UI, Framer Motion
- **Testing:** Jest, React Testing Library, Cypress, Playwright
- **API Layer:** tRPC, REST, GraphQL
- **Developer Tools:** ESLint, Prettier, Husky, lint-staged
- **Build Tools:** Vite, Webpack, Turborepo
- **Version Control:** Git, GitHub Actions
- **Analytics:** Vercel Analytics, PostHog
- **Monitoring:** Sentry, LogRocket

## BMW Group, Breda — Integration Architect

*May 2023 - Present*

Leading integration architecture and product ownership for BMW Group Financial Services, managing critical systems integration and development initiatives.

### Key Responsibilities:

- Serve as SPOC (Single Point of Contact) between business leaders/stakeholders from Switzerland, Belgium, Netherlands and IBM offshore teams
- Architect and implement solutions utilizing IBM Integration Bus and Amazon AWS
- Design and maintain technical and functional interface specifications
- Lead and coordinate development teams across multiple regions
- Drive strategic decisions on integration platform direction
- Collaborate with Online Integration Team BMW Group on architecture decisions
- Manage release planning and testing activities
- Ensure timely delivery according to strict organizational deadlines

### Technical Environment:

- **Cloud Services:** AWS, Amazon MQ, Lambda
- **Integration:** IBM Integration Bus, API Gateway
- **Monitoring:** CloudWatch, Splunk
- **CI/CD:** Jenkins, AWS CodePipeline
- **Version Control:** Git, BitBucket
- **Documentation:** Confluence, Draw.io

# Profit4SF, Utrecht — Software Architect

January 2018 - April 2023

## OTOLIFT Stairlifts (June 2021 - April 2023)

Led modernization efforts for complex IT landscape using MuleSoft as middleware solution.

### Key Achievements:

- Designed and implemented strategic software roadmap
- Established seamless integration between NAVISION, MuleSoft, and Salesforce
- Created comprehensive technical and functional designs
- Developed RESTful APIs following MuleSoft best practices
- Implemented automated CI/CD pipelines
- Provided technical leadership to DevOps team
- Managed sprint planning and project delivery

### Technical Environment:

- **Integration:** MuleSoft Anypoint Platform, Anypoint Studio
- **CRM:** Salesforce
- **ERP:** Microsoft Dynamics NAV
- **API Design:** RAML, Postman
- **CI/CD:** Jenkins, Azure DevOps
- **Version Control:** Git, GitHub

## WENSINK (January 2018 - June 2021)

Architected hybrid integration solution combining MuleSoft, Salesforce, and various technologies for automotive company.

### Key Achievements:

- Developed and presented weekly project status reports to management
- Implemented Scrum Agile methodology across teams
- Designed and implemented backend systems integration with Salesforce
- Created technical documentation and API specifications
- Established CI/CD practices and deployment pipelines
- Provided technical guidance to DevOps team
- Managed project planning and delivery

### Technical Environment:

- **Integration:** MuleSoft Anypoint Platform
- **CRM:** Salesforce
- **API Design:** RAML
- **Testing:** MUnit, Postman
- **CI/CD:** Jenkins

- **Project Management:** Jira

## VIRTUAL SCIENCES, Utrecht — Integration Specialist

*September 2016 - May 2017*

### ASR Project

Developed and integrated enterprise applications for major insurance provider.

#### Key Responsibilities:

- Developed applications and Web Services using IBM APP CONNECT
- Integrated backend systems with CRM software
- Conducted comprehensive End-to-End testing
- Provided technical documentation and support

#### Technical Environment:

- **Integration:** IBM APP CONNECT, IBM MQ
- **Testing:** SoapUI, Postman
- **Version Control:** SVN
- **Documentation:** Confluence

## Education

### Ludwig-Maximilians-Universität, München

*2011 - 2015*

Master of Science: Classical Philosophy

- Focus on Logic and Mathematical Philosophy
- Thesis on Formal Logic Systems

### Leiden University, Leiden

*2006 - 2011*

Master of Science: Mathematics

- Specialization in Applied Mathematics
- Research in Algorithm Theory

## Technical Skills

#### Integration Platforms & Tools:

- MuleSoft Anypoint Platform (Advanced)
- IBM APP CONNECT (Advanced)
- IBM Integration Bus (Advanced)
- IBM MQ (Advanced)

- Apache MQ (Proficient)

### **Programming Languages & Frameworks:**

- Java (Advanced)
- Python (Advanced)
- JavaScript/TypeScript (Advanced)
- Node.js (Advanced)
- SQL (Advanced)
- Apex (Proficient)

### **Cloud & DevOps:**

- AWS Services (Advanced)
- Azure DevOps (Advanced)
- Jenkins (Advanced)
- Git (Advanced)
- Red Hat OpenShift (Proficient)

### **Architecture & Design:**

- TOGAF® 9 (Certified)
- Archimate® (Certified)
- UML (Advanced)
- Sparx Enterprise Architect (Advanced)
- API Design (Advanced)

### **Monitoring & Analytics:**

- Splunk (Advanced)
- ELK Stack (Proficient)
- Application Insights (Proficient)

## **Certifications**

- MuleSoft Integration Architect Level 1
- MuleSoft Platform Architect Level 1
- TOGAF® 9 Certified
- Archimate® Certified
- Professional Scrum Master I & II
- MuleSoft Certified Developer 3.0
- IBM APP CONNECT Solution Developer

## **Languages**

- Dutch: Fluent (Native)
- English: Fluent (Professional)
- French: Fluent (Professional)

# Professional Memberships

- Member of IEEE Computer Society
- Member of International Association of Software Architects (IASA)
- MuleSoft Community Contributor