

PATRICK BATKE - Project Portfolio

Project 1: Modular Web Platform for Multi-Country Insurance Claims Processing

- **Project Overview:** Development and technical leadership of a scalable web platform for managing and processing insurance claims across multiple countries, built on a modular architecture and deployed internationally.
- **Features:**
 - **Technical Leadership:** Acted as technical lead for a team of 15 engineers, driving technical direction, architectural decisions, and delivery execution in close collaboration with product and business stakeholders.
 - **Agentic Engineering Enablement:** Established an AI-driven “Agentic Engineering” enablement framework, defining rules, reusable resources, and team-wide workflows to increase engineering efficiency and quality through structured use of agentic tools.
 - **Modular Web Application:** Development of an Angular application with extension modules for different countries.
 - **Microservices Architecture:** Involvement in the development of microservices following the hexagonal architecture.
 - **Event-based Data Processing:** Use of Kafka to manage event consumption and production, ensuring efficient and reliable data flow throughout the system.
- **Tech Stack:** Java, Spring Boot, TypeScript, Angular, Kafka, MongoDB
- **My Tasks:**
 - Technical lead for a 15-engineer team: aligning engineering execution with product priorities, driving technical decisions, and ensuring consistent delivery quality.
 - Development of microservices using the hexagonal architecture.
 - Development of a modular Angular application adapted for multiple countries.
 - Collaboration with cross-functional teams on shared codebases.
 - Utilization of Kafka to manage event-based communication and ensure reliable data flow.
 - Full-stack development, including debugging and test automation.
- **My Achievements:**
 - 40% reduction in customization effort per rollout
 - 50% faster onboarding of new developers
 - 35% fewer production incidents
 - 60% increase in test coverage across microservices
- **Client:** Allianz Technology GmbH
- **Period:** 08/2024 – ongoing

Project 2: Subway X-Car - PI+ (Passenger Information Plus)

- **Project Overview:** Development of a secure and scalable passenger information system, which is used in Vienna's latest subway trains.
- **Features:**
 - **Dynamic Network Maps:** Displays dynamic network maps above each carriage door, showing the progress of the journey as well as door-specific information for each stop.
 - **Real-time Direction Indicators:** Provides real-time direction indicators for exit sides, elevators, and exits.
 - **Real-time Information:** Offers flexible real-time information on delays, disruptions, and cancellations.
 - **Easy Data Maintenance:** Enables easy updates of displayed information and operational data directly on the screens.
- **Tech Stack:** Java, Spring Boot, TypeScript, Angular, Kafka, MSSQL
- **My Tasks:**
 - Full-stack development and designing of software architectures.
 - Debugging and automation of tests to improve system reliability.
 - Integration of a real-time data API from Wiener Linien.
- **My Achievements:**
 - Improved system availability by 25%.
 - Reduced latency in real-time updates by 30%.
 - Reduced error-related incidents by at least 50% through automated tests.
- **Client:** Siemens Mobility GmbH
- **Period:** 10/2022 – 07/2024

Project 3: Caesar - A Comprehensive SaaS Solution for Insurance Brokers

- **Project Overview:** Development of a SaaS platform called Caesar, specifically designed for insurance brokers to efficiently manage customer relationships and insurance policies.
- **Features:**
 - **Data Management:** Enables easy uploading of standardized Austrian insurance data, including insurance details, claims, and commission payouts.
 - **Growth Monitoring:** Allows brokers to monitor portfolio growth by defining a period and tracking the number of acquired customers and commission payouts.
 - **Data Manipulation:** Offers advanced features for filtering, searching, and sorting data with the ability to customize tables and manually add, edit, or delete records.
 - **Data Export:** Provides export functionality for datasets into Excel-compatible tables.
 - **Access Control:** Enables the creation of consultant accounts with specific permissions.
 - **System Maintenance:** Supports data integrity through export/import of backups.
- **Tech Stack:** Go, Java, Spring Boot, TypeScript, Vue 3, React, GCP, Kubernetes, PostgreSQL
- **My Tasks:**
 - Full-stack development of the Caesar platform.
 - Integration of OMDS 3.0 data upload, processing over 1 million data entries.
 - Implementation of growth monitoring features and customizable data manipulation tools.
 - Development of data export, user customization, and access control features.
- **My Achievements:**
 - Reduced time spent on managing customer portfolios by 30%.
 - Successfully integrated over 1 million data entries.
 - Optimized data management processes, improving brokers' operational efficiency.
- **Client:** Selektta Versicherungsmakler GmbH
- **Period:** 10/2021 – 09/2022

Project 4: M.App Enterprise – Geographic Information System

- **Project Overview:** Development of a GIS (Geographic Information System) platform for processing and visualizing geographic data.
- **Features:**
 - **Geographic Analyses and Visualizations:** Provision of a comprehensive platform for geographic analyses and visualizations.
 - **Live Preview of Map Styles:** Integration of features for live preview of maps for geographic data styles.
 - **Editor for Geographic Data Styles:** Provision of an editor for geographic data styles to enable custom representations of geographic data.
 - **Enhanced Data Visualization:** Facilitation of data visualization and improvement of user-friendliness.
- **Tech Stack:** C#, .NET, Java, Spring Boot, TypeScript, Vue 3, Oracle, MS Azure
- **My Tasks:**
 - Full-stack development of the platform.
 - Development of the geographic data style editor with a live preview function.
 - Conducting comprehensive tests and bug fixes to improve system reliability.
 - Introduction of new features and improvements in multiple successful releases.
- **My Achievements:**
 - Reduced error-related incidents by 40%.
 - Increased productivity of GIS analysts by 25%.
 - Over 10 successful software releases.
- **Client:** Hexagon AB
- **Period:** 05/2019 – 09/2021

Project 5: Web Application for Packaging Design Approval

- **Project Overview:** Development of an application for easy management of the packaging design approval process.
 - **Features:**
 - **Feedback and Approval Management:** Management of feedback and approvals within the application.
 - **Automated Approval Processes:** Automation and tracking of approval processes for packaging designs.
 - **Tech Stack:** C#, .NET, TypeScript, Angular, MS SQL
 - **My Tasks:**
 - Full-stack development and coordination of the project.
 - Implementation of feedback and approval functions.
 - Ensuring user-friendliness and system stability through comprehensive testing.
 - **My Achievements:**
 - Reduced approval time for packaging designs from an average of 5 days to 3 days.
 - **Client:** Neuherz & Partner GmbH
 - **Period:** 12/2018 – 04/2019
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Project 6: Party Pretzel Configurator

- **Project Overview:** Development of a party pretzel configurator for a supermarket chain, allowing customers to design individual pretzels.
- **Features:**
 - **Custom Party Pretzel Design:** Ability to customize party pretzels through a user-friendly web application.
 - **Real-time Preview and Order Adjustment:** Real-time preview and adjustment of the order based on customer inputs.
- **Tech Stack:** C#, .NET, TypeScript, Angular, MS SQL
- **My Tasks:**
 - Full-stack development of the configurator.
 - Ensuring high availability and performance of the application.
 - Conducting usability tests and optimizing user experience.
- **My Achievements:**
 - Customer satisfaction rate of 90%, evidenced by customer surveys.
- **Client:** Neuherz & Partner GmbH
- **Period:** 07/2018 – 11/2018