# Michal Volak

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## Profile:

* Front-end developer in React and Angular, Microsoft 365 Solutions Engineer specializing in bridging traditional and modern Microsoft technologies, with extensive experience leading enterprise migrations from legacy systems to cloud-native M365 ecosystems.
* My expertise covers both SharePoint administration using PowerShell as well as modern front-end development, where I enjoy building advanced enterprise solutions and Apps using React, Fluent-UI, and the latest CSS extensions and techniques
* I'm passionate about creating dynamic web interfaces that utilize modern design techniques, animation, and innovative AI tools to create fluid, intuitive experiences. Always focusing on delivering high-performance, scalable applications that users love to work with.

## Professional Experiences:

**Sharepoint developer ▪ ESM (European Stability Mechanism)/Accenture ▪ Oct/2022 – present**

* Leading the development and initial design of a modern React-based client application for ESM's "*New Interfacing*" trading platform, successfully replacing a legacy SharePoint solution. Utilized Shadcn UI components, React-Table, and AG Grid to deliver a high-performance, responsive trading interface that significantly improved user experience and system efficiency. Implementing role-based access control and seamless user management based on Microsoft Entra, across development, staging, and production environments.
* Implementing role-based access control and seamless user management based on Microsoft Entra, across development, staging, and production environments.
* Designed and implemented custom reusable UI components, a streamlined change request management system using React, Redux Toolkit, and custom workflow logic, reducing request handling time and improving overall process efficiency.
* Responsible as the primary administrator for critical enterprise infrastructure, managing SharePoint 2016 on-premise servers, MS-SQL Database servers, and K2 BlackPearl workflow servers. Ensured system uptime and implemented disaster recovery protocols. Created and deployed the initial change request solution for the legacy Interfacing platform.
* Designed and implemented a streamlined change request management system using Redux Toolkit, and custom workflow logic, reducing request handling time and improving overall process efficiency. Developed RESTful API services using ASP.NET (C#), implementing clean architecture principles and ensuring secure, efficient data flow between frontend and backend systems.
* Managed CI/CD pipelines in Azure, automating the build, test, and deployment processes to ensure efficient and reliable delivery of software updates.
* Enhanced quality assurance processes by implementing comprehensive end-to-end testing using Playwright, successfully migrated and modernized legacy JSON-based test suites to maintain testing continuity with using visual test recording.

**Sharepoint consultant ▪ E.ON / Accenture ▪ Jan/2021 – Sep/2022**

* Architected and executed large-scale content migration strategies from on-premise to Microsoft 365, managing terabytes of data using an integrated toolkit including ShareGate, MetaLogic, SPMT, PowerShell and custom JavaScript solutions. Achieved zero data loss and minimal business disruption.
* Established migration best practices and led consulting engagements for complex SharePoint migrations, developing comprehensive frameworks covering tools selection, custom scripting, API integration, and post-migration validation protocols.
* Participate and provide business processes improvements as Power Apps implementations, creating automated workflows for external data processing, metadata management, version control, and bulk updates. Reduced manual processing time, while ensuring data integrity.
* Engineered a custom no-code Power Automate connector enabling seamless integration between external applications and SharePoint data.
* Developed reusable Power Apps Component (PCF) solutions. Created modular, maintainable components that reduced development time for subsequent projects.
* Designed and implemented a comprehensive Power Apps based auditing solution for E.ON's Auditing department, integrating SQL Server and Excel data to streamline audit processes and improve reporting efficiency.
* Developed and deployed interactive Power BI dashboards across multiple E.ON departments, transforming raw data into actionable insights. Conducted training sessions and provided ongoing support, enabling teams to make data-driven decisions.
* Engineered custom SPFx solutions using React and Fluent-UI, delivering client-side web parts and extensions that automated specific business processes. Solutions included dynamic content rendering, advanced search capabilities, and custom UI components.
* Architected a secure M365 authorization solution for external parties and collaborators, implementing granular access controls across sites, libraries, and lists while ensuring compliance with organizational security policies.
* Provided support operations for the M365 ecosystem, including SharePoint Online, OneDrive for Business, MS Teams, Power Apps.
* Developed solution as a link fixer to automatically correct invalid links in multiple Excel files published on a SharePoint site.

**Sharepoint developer ▪ REA (Research Executive Agency) European Commission, Brussels ▪ Dec/2017 – May/2019**

* Designed and developed ICM (Internal Controlling Monitoring) tool using React, TypeScript, Sharepoint REST API data.
* Created custom portal navigation in JavaScript/Knockout.js for hierarchical menu design using Bootstrap UI controls and an internal Sharepoint Lists for persistency.
* Developed other custom applications using Sharepoint REST API back-end and plain JavaScript and React framework.
* Developed simple applications, like Training booking, Info Sessions booking, employee surveys, using plain JavaScript, jQuery, Knockout.js.
* Created Power BI reports for REA’s marketing department.
* Created meeting room booking application and administration console based on FullCalendar.js that can be used by all related agencies, including the Administration console designed as CEWP JavaScript app.
* Created custom Excel Add-in and scripts for task automation.
* Implemented various PowerShell scripts for intranet maintenance to provide fast and flexible day-to-day support to Communications and other stakeholders.

**Sharepoint developer ▪ EASA European Aviation Safety Agency, Cologne Germany ▪ Dec/2015 – Sep/2017**

* Developed ECM system for EASA, the Sharepoint based document management system.
* Developed IMF Intranet Sharepoint solution, including Content Type Hub, Search extensions, Records Management custom properties.
* Responsible for migrating large number of documents to SP2013 using Sharegate and custom Office Apps extension.
* Created reusable PowerShell scripts for migration and system administration.
* Participated in DevOps solutions for intranet.
* Created Excel custom Excel application extensions for business metadata migration purposes, using C#, JavaScript, VSTO, Office Add-ins, Open XML, MS Graph API.

**Web developer ▪ BearingPoint, Leipzig Germany ▪ Jan/2015 – Oct/2015**

* Developed intranet applications with responsive mobile design using Sitrion Framework, JavaScript, Angular.JS, Bootstrap, CSS, SASS and ASP.NET.
* Created custom portal Live Tiles UI application navigation including display of contextual data according to o365 Live Tiles navigation.
* Implemented Sharepoint 2013 search extensions, promoted links, SP search, JavaScript, PowerShell
* Intranet mobile application using Ionic and Office 365 Unified API (now MS Graph) in VSCode.
* Custom chart development using D3.JS for SAP business data used in Live Tiles application.
* Backend data access library for SQL Server and Oracle using ASP.NET and EF 6.

**Sharepoint consultant ▪ BSP, Bratislava SK ▪ Apr/2014 – Dec/2014**

* Designed and created custom Sharepoint 2013 Forms as application pages in ASP.NET development.
* Implemented custom Sharepoint 2013 workflow using the forms and Nintex.
* Designed and developed internal project to create custom Office 365 Apps to build user-friendly forms and organizational Chart to generate SP permission settings.
* Responsible for data migration, scripting with PowerShell, go-live process, solution designed by Microsoft Slovakia.
* An expert in creating new type of applications for Sharepoint using Angular.JS, Breeze, Bootstrap, SASS and responsive design in Sharepoint-hosted app solution (VS 2013).

**Web developer ▪ CSAS a.s. (Erste Group) Prague CZ ▪ Sep/2012 – Mar/2014**

* Worked on extension of Identity Management services for Partner24 – the biggest online banking portal in CZ, together with Microsoft CZ team.
* Coded UI modules for Identity Management web application.

**Sharepoint developer ▪ StoraEnso, SDCC CZ ▪ 2011 – 2012**

Designed and developed number of applications for corporate intranet portal.

* IICP - Internal Inventory Control Forms application in InfoPath and SP WS
* ERM – Risk management data processing, Excel services, UDF data integration
* PPM – Project management tool customization, workflow
* 3-rd level application support
* Using of Visual Studio 2010, ASP.NET, SPServices, JavaScript, jQuery, Knockout.JS, HTML, CSS, InfoPath, Office, PowerShell.

**Sharepoint developer ▪ Česká Pojišťovna a.s. (Accenture CZ) ▪ 2009 – 2010**

* Desined and developed the New Intranet Portal for retail business (NOPI). Portal for management of sales results, current offers, continuous business results, dealer activities and rating, reviews, announcements, motivation programs, dashboards, KPI, etc.

**Project Manager ▪ Unicorn a.s. ▪ 2008 – 2009**

* Responsible for delivery of Public insurance management portal – CSSZ. Responsible for development and delivery of public pension and health insurance management.

**Team Lead ▪ IBA CZ s.r.o. ▪ 2004 – 2008**

* Automated reservation system development, Protocol-National (UK).
* Development of CMS for e-Learning, based on SCORM format.

**Senior C++ Developer ▪ Tecways AG, Munich ▪ 2000 – 2004**

* Development of Telco MSP modules - mediation device, Celcom (Malaysia) and HLR, Q-tel (Qatar).

**Senior C++ Developer ▪ CN CZ (now Anritsu, DK) ▪ 1996 – 2000**

* Member of Quest 7 (now MasterClaw) team for development SS7 based applications for surveillance and telecommunication networks monitoring.

## Other knowledge:

Programming languages and API: TypeScript, JavaScript, C#, VB.NET, Sharepoint, WCF,

Web Frameworks and Libraries: jQuery, Knockout.JS, Angular, React, Next.js Bootstrap 4.0, HTML5/CSS3, Tailwind CSS, Orchard CMS,

Database: SQL Server, Oracle, MySQL

Servers: Windows Server 2008, Unix, Sharepoint 2010/2013

Tools: VisualStudio, GIT, TFS, Enterprise Architect, Visio, Balsamiq,

Mobile platform: Ionic, Cordova, React Native

## Education and courses:

High school of electricity, Prague, CZ ▪ 1989

Sharepoint Saturday, Brussels ▪ 2018

ITIL certification ▪ 2012

BPMN training, Unicorn, Prague ▪ 2008

Project management training, Unicorn, Prague▪ 2008

VCDJ Developers Conference, Santa Clara USA ▪ 1999