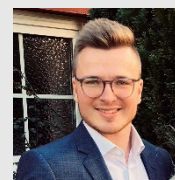


Tobias Czyzewski

Managing Director at BidFlow Technologies | IT Contractor

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📍 Hamburg, Germany



SUMMARY

Managing Director and IT Contractor with great strength in pragmatic thinking and creative problem solving. Passionate to innovate and solve difficult problems in elegant and efficient ways. High self-learning competence and inclination to sensible decision making and to deliver best possible quality. Actively leading business operations and playing key roles in previous projects trained me in professional and proactive collaboration with others. Excellent work ethic to get things done.

EXPERIENCE

Managing Director, Solutions Architect, Full Stack Developer 01.2020 – present *BidFlow Technologies*

- running systematic trading operations in the cloud (extensive experience with AWS, built entire tech stack from scratch, low-latency and event driven)
- supervising BidFlow Technologies' tech stack (day-to-day administrative tasks to ensure business operations run smoothly)
- expanding BidFlow Technologies' trading platform on a continuous basis (involving cloud infrastructure planning, Big Data management, DevOps, distributed systems, event-driven architectures, backend/frontend development, data science, and more)

Tech: AWS (Cloud-native), IaC (Terraform), CI/CD (GitLab Pipelines, GitHub Actions), DevOps, Microservices, Docker, Container Orchestration, JavaScript/TypeScript, Node.js, React, Rust, (No)SQL databases (notably MongoDB and AWS DynamoDB), Redis, Python, Firebase, iOS, Swift

Full Stack Developer 06.2024 – 06.2025 *Client: E.ON Digital Technology*

- played a key role in a newly established IT infrastructure team with significant impact on the design and development of a completely new product (API facade to unify and centralize various business domains)
- optimized delivered solution for maintainability, scalability and cost-effectiveness
- delivered quality set the bar to a new level in the whole division and teams in other divisions working on similar topics were impressed by the extent of our solution
- established state-of-the-art identity and access management mechanisms including advanced authentication and authorization concepts as well as identity federation

Tech: AWS (Cloud-native), IaC (AWS CDK), CI/CD (GitLab Pipelines), DevOps, JavaScript/TypeScript, Node.js, React (E.ON Home frontend), APIs, Redis, IAM, OAuth 2.0

Research Assistant 04.2019 – 03.2021 *Kiel University*

- collaborated closely with Computer Science professors and colleagues to run university teaching operations (assignment feedback, exam supervision, exam feedback)
- professors and colleagues alike valued my dedication and quality of work

Tech: Linux, Java, C, C++, Qt, OpenCV

Founder of "The Dawnless Days" 03.2014 – 09.2018 *Open Source*

- built an international core team (some team members are involved in the project to this day)
- developed new tools and workflows to customize third-party game content (pushed the envelope of what was possible at that time)
- project is known for industry standard quality (managed to deliver highest quality even if it is an open-source project)

Tech: C, OpenGL, 3ds Max, ZBrush, Adobe Substance 3D, Adobe Photoshop, CA Assembly Kit

EDUCATION

Master studies in computer science 10.2019 – 06.2024 *Kiel University*

Bachelor's degree in computer science 10.2016 – 10.2019 *Kiel University*

- Bachelor thesis:
Simultaneous Localization and Mapping for the Formula Student Team Kiel
 - **thesis goal:** develop a SLAM algorithm for the Formula Student Team Kiel as part of an autonomous driving suite for their race car
 - **thesis grade:** 1.0

Cambridge English Level 1 Certificate 06.2016 *Cambridge Assessment English*

ADDITIONAL ACHIEVEMENTS

Scholarship "Deutschlandstipendium" 10.2016 – 10.2021 *Kiel University*

- scholarship was gratefully received for four academic years in a row for above-average performance in school and university

DMV-Abiturpreis 2016 06.2016 *High School Elmschenhagen*

- award to acknowledge excellent diploma performance in mathematics

LINKS

🌐 tobiiasczyzewski.com
🌐 bidflow-technologies.com
🌐 linkedin.com/in/tobias-czyzewski

LANGUAGES

German (native)
English (proficient)

SKILLS

Amazon Web Services

notably: Organizations, IAM, CloudFormation, VPC, Route 53, API Gateway, EC2, ECR, ECS, ElastiCache, Lambda, S3, DynamoDB, CodePipeline, CloudWatch, Athena, Cognito, Amplify, AppSync, SNS

Infrastructure as Code

notably: AWS CDK, Terraform

DevOps, Continuous Integration workflows

notably: GitLab Pipelines, GitHub Actions

Low-latency event-driven architectures

in particular in the context of high-speed electronic trading

Microservices / Distributed Systems

in particular: containerization with Docker, orchestration with AWS ECS and Kubernetes, event-driven architectures

Big Data Management and Analytics

JavaScript / TypeScript

frontend: notably React and Angular
backend: notably Node.js

Rust

in particular for high-performance microservices
notably: tokio, tonic, low-latency architectures

(No)SQL Databases

in particular: PostgreSQL, MongoDB [Atlas], AWS DynamoDB

Python

in particular: pandas, numpy, TensorFlow, Dask, Plotly, Jupyter Notebook

C and C++

notably: Qt, OpenCV, OpenGL, ROS

Java

Web Development

in particular: HTML, CSS

Mobile App Development

notably: Swift for iOS, Firebase

Unit Testing / TDD / BDD

in particular: Jest, Vitest, Mocha

DOMAIN KNOWLEDGE

Financial Markets

Automated Trading

risk management, time series management and analysis, statistical analysis, event-driven systems, low-latency architectures, API trading, real-time monitoring, performance evaluation