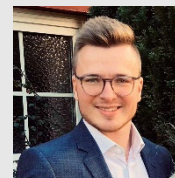


# Tobias Czyzewski

## Cloud Architect & Full Stack Developer | IT Contractor

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📍 Hamburg, Germany



### SUMMARY

I specialized in developing effective and innovative enterprise-scale cloud and software solutions. With more than 6 years of experience in IT business and cloud solution development in highly challenging environments, I make sure to deliver quality with scalability, cost effectiveness and future reliability in mind. Actively leading business operations and playing key roles in previous projects shaped my effective approach to professional collaboration and ownership in difficult environments. 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 (Organizations, IAM, CloudFormation, VPC, Route 53, API Gateway, EC2, ECR, ECS, ElastiCache, Lambda, S3, DynamoDB, CloudWatch, Athena, Cognito, Amplify, AppSync, SNS), IaC (Terraform), CI/CD (GitLab Pipelines, GitHub Actions), DevOps, Microservices, Docker, Container Orchestration, ETL Pipelines, JavaScript/TypeScript, Node.js, Ts.ED, React, Rust, (No)SQL databases (PostgreSQL, MongoDB), Redis, Python, Firebase, iOS, Swift, Jira, Confluence

**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 (Organizations, IAM, CloudFormation, API Gateway, ElastiCache, Lambda, CloudWatch, Cognito), IaC (AWS CDK), CI/CD (GitLab Pipelines), DevOps, Microservices, Docker, JavaScript/TypeScript, Node.js, Ts.ED, React (E.ON Home frontend), REST APIs, Redis, Python, Auth0, OAuth 2.0, SAML, Jira, Confluence

**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

### LINKS

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

### LANGUAGES

German (native)  
English (proficient)

### EXPERTISE

#### Cloud Solution Architectures

notably: Domain Driven Design, Event-Driven Architectures, Microservices, Distributed Systems

#### 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

#### Microservices / Distributed Systems

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

#### Low-Latency Event-Driven Architectures

in particular in the context of high-speed electronic trading

#### Big Data Management and Analytics

in particular: real-time data streaming, ETL pipelines, data warehousing

#### DevOps, Continuous Integration processes

notably: GitLab Pipelines, GitHub Actions

#### Web Development

in particular: HTML, CSS

#### Mobile App Development

notably: Swift for iOS, Firebase

#### (No)SQL Databases

in particular: PostgreSQL, MongoDB (Atlas), AWS DynamoDB

#### Unit Testing / Test Driven Development

#### JavaScript / TypeScript

frontend: React and Angular  
backend: Node.js, Ts.ED, Next.js

#### Rust

notably: tokio, tonic, low-latency architectures

#### Python

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

#### C and C++

notably: Qt, OpenCV, OpenGL, ROS

#### Java