

Tobias Czyzewski

Contractor - AWS Developer and Solutions Architect



Summary

AWS Developer and Solutions Architect with particular 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. Actively leading business operations and having led other projects before trained me in professional and proactive collaboration with others. Excellent work ethic to get things done.

Experience

- 2020 - present** **Managing Director, AWS Developer, AWS Solutions Architect**
BidFlow Technologies
- running systematic trading operations in the cloud (extensive experience with AWS, built entire tech stack from scratch)
 - supervising BidFlow Technologies' tech stack (day-to-day administrative tasks to ensure business operations run smoothly)
 - expanding BidFlow Technologies' software ecosystem on a continuous basis (involves cloud infrastructure planning, Big Data management, DevOps, distributed systems, backend/frontend development, data science, and more)
- Tech: AWS, IaC, CI/CD, Docker, JavaScript/TypeScript, Node.js, MongoDB, Python, Firebase, iOS
- 2019 - 2021** **Research Assistant**
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
- 2014 - 2018** **Founder of "The Dawnless Days" (large scale game modification)**
Open Source
- built an international core team (some team members are involved in this 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)
 - the project is known for industry standard quality (managed to deliver highest quality even if it is a voluntary project)
- Tech: OpenGL, 3ds Max, ZBrush, Adobe Substance 3D, Adobe Photoshop, CA Assembly Kit

Education

- 2019 - 2024** **Master studies in Computer Science**
Kiel University
- 2016 - 2019** **Bachelor's degree in Computer Science**
Kiel University
- Bachelor thesis:
 - Simultaneous Localization and Mapping for the Formula Student Team Kiel**
 - Simultaneous Localization and Mapping, short SLAM, describes a problem in robotics in which a mobile robot determines its position and orientation in the environment and simultaneously creates a digital map of this environment
 - the Formula Student Team Kiel is part of the Formula Student Germany competition and builds single seated formula style cars with which it competes against teams from all over the world
 - 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
- 2016** **Cambridge English Level 1 Certificate**
Cambridge Assessment English
- 2007 - 2016** **High School Diploma**
High School Elmschenhagen

Additional Achievements

- 2016 - 2021** **Scholarship "Deutschlandstipendium"**
Kiel University
- scholarship was gratefully received for four academic years in a row for above-average performance in school and university
- 2016** **DMV-Abiturpreis 2016**
High School Elmschenhagen
- award to acknowledge excellent diploma performance in mathematics

Personal Info

- Residence**
Hamburg, Germany
- E-Mail**
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- LinkedIn**
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- Company Website**
www.bidflow-technologies.com
- Mobile**
upon request

Languages

- German**  native
- English**  proficient

Skills

- Amazon Web Services**
notably: CloudFormation, VPC, Route 53, API Gateway, EC2, ECR, ECS, Lambda, S3, DynamoDB, CodePipeline, CloudWatch, Athena, Cognito, Amplify, AppSync, SNS
- Infrastructure as Code**
- DevOps, Continuous Integration workflows**
- Microservices / Distributed Systems**
in particular: containerization with Docker and Kubernetes
- Big Data Management and Analytics**
- JavaScript / TypeScript**
frontend: notably React and Angular
backend: notably Node.js
- (No)SQL Databases**
in particular: MongoDB (Atlas)
- Python**
in particular: pandas, numpy, TensorFlow, Dask, Plotly, Jupyter Notebook
- C and C++**
notably: Qt, OpenCV, OpenGL
- Java**
- Web Development**
in particular: HTML, CSS
- Mobile App Development**
notably: Swift for iOS, Firebase
- Unit Testing / TDD / BDD**
in particular: Mocha, Jest

Special Domain Knowledge

- Financial Markets**
asset classes, derivative instruments, monetary policy, blockchain, cryptocurrency (Bitcoin)
- Automated Trading**
risk management, time series management and analysis, statistical analysis, event-driven systems, API trading, resilient architectures, real-time monitoring, performance evaluation