Johannes Innerbichler



Cloud Freelancer

"A man provided with paper, pencil, and rubber, and subject to strict discipline, is in effect an universal machine." - Alan Turing -

Personal Details

NameJohannes Simon InnerbichlerEmailj.innerbichler@gmail.comBirth17.06.1987CitizenshipAustriaWebhttps://www.johannesinnerbichler.comGitHubhttps://github.com/jinnerbichler

Studies

2013 to 2016 Master Telematik

Graz University of Technology, Rechbauerstraße 12, 8010 Graz Focus: Computer Vision und Computational Intelligence passed with distinction Master's thesis: Cloud Storage Performance

2009 to 2013 Bachelor Telematik

Graz University of Technology, Rechbauerstraße 12, 8010 Graz passed with distinction Bachelor's thesis: Safe Implementation of AES

Timeline

2016 till now IT Freelancer, Cloud Applications with Microservices and Data Analytics

As a freelancer, I have developed several cloud applications based on the Microservice paradigm and a focus on data security. Additional projects dealt with data analytics using techniques from Machine Learning and Artificial Intelligence. An up-to-date list of reference projects and skills can be found on www.johannesinnerbichler.com.

2016 till 2018 Salzburg Research, Cloud focused IoT Researcher

During this time, I worked on a cloud platform called NIMBLE, which enabled small and medium-sized businesses to find new partners on the platform and augment advanced business processes.

2014 to 2016 CrossCloud GmbH, Co-Founder, CTO and Managing Director

CrossCloud is a client application for cloud storage, e.g. Dropbox or Google Drive, which enables companies to use multiple cloud storage services in a very easy and secure way. As co-founder and CTO of a startup, I led a team of five developers and learned how to create a product from the ground up. During my role as scrum master, I learned how to use resources efficiently. The founders of CrossCloud received the award of being Grazer of the year 2015 in the field of economy. Two investment rounds were closed and a FFG Basisprogramm was approved successfully.

www.crosscloud.me

2012 to 2014 Freelancer, App and Web Development

As a freelancer I developed several Groovy on Rails and HTML 5 applications.

IT Projects

NIMBLE Cloud Platform - Roles: Cloud Architecture Design and Lead Developer

Java Maven Spring Cloud Kubernetes Helm Microservices Docker Jenkins Camunda NIMBLE is marketed as the novel, federated approach for industry B2B cloud platforms. The platform was built according to the Microservice paradigm, which led to a very modular and flexible architecture. Spring Cloud (based on Spring Boot) provided the underlying framework for building the necessary cloud infrastructure. Docker was used as deployment target and Kubernetes utilised as the container-orchestration system in the cloud. I was mainly in charge of designing the Microservice architecture and guided the development of the platform as the lead developer. Additionally, I was in charge of the security components, which were realised using Keycloak and the OAuth2.0 / OpenID Connect standard. Angular was the applied front-end technology. The source code of the platform is available open source on GitHub. GitHub: https://github.com/nimble-platform

CrossCloud Client Application - Roles: CTO, Lead Developer and Scrum Master

Java Maven Spring Boot Groovy Python Flask NodeJS The first version of the client application was a desktop application written in Java and Groovy. Connections to different cloud storage services and the synchronization engine were executed on the Java Virtual Machine. By the end of 2015 we rewrote and refactored the entire application in Python. Mobile applications were developed using the Xamarin platform in order to reuse the business logic on iOS and Android. Server-side implementation was created using the Spring Framework.

Cloud Storage Performance Analysis - Role: Developer

Java My master thesis dealt with a global performance analysis of three of the most used cloud Python Django Were used to find an optimal model of global bandwidths. A deep understanding of TensorFlow Multiple Linear Regression and Support Vector Machines has been developed within this project.

Neuronal Politician - Roles: Developer, Data Scientist and DevOps

PythonSpeeches in the National Council of Austria are stenographically recorded and madeTensorFlowavailable on data.gv.at. Recorded texts were used to train an artificial recurrent neuralKerasnetwork, which uses the last 15 words to predict each 16th word. The source code isDjangoavailable on GitHub.

GitHub: <u>https://github.com/jinnerbichler/neural-politician-ai</u> Website: <u>http://neuronaler-politiker.com/</u>

Deep Learning Trading Agent - Roles: Data Scientist and DevOps

PythonWith the help of a Convolutional Neural Nets (CNNs), we tried to make price predictions of
cryptocurrencies (e.g. Bitcoin or Ethereum). The neural network was implemented with
Google's Tensorflow and the higher abstraction library Keras. Past trades of the different
currencies since 2013 were used as the underlying dataset. Later, a sentiment analysis of
articles on Twitter was applied to further improve the prediction capabilities of the model.
Next steps in this project will be a semantic classification of texts using Word
Embeddings and an evaluation of Recurrent Neural Networks (RNN) for time series
modeling.

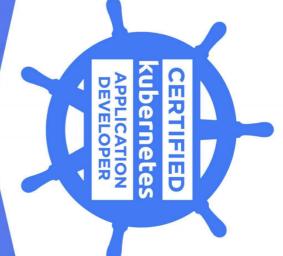
Safe Implementation of the AES-algorithm - Role: Developer

C During my bachelor thesis I was securing an existing implementation of the Advanced Assembler Encryption Standard (AES) on an 8-bit microcontroller against side-channel attacks.

Additional Qualifications

IT-Knowledge

Programming Languages	Java / Python / JavaScript / Typescript / JSX
Libraries	Spring Boot / Spring Cloud / Spring Security / Bouncy Castle / Apache Kafka / ELK Stack / Tensorflow / Keras / scikit-learn / Numpy / NLKT / Spacy / Flask / Django / React / Angular 2-6
Software	Docker / Docker-compose / Kubernetes / PyCharm / IntelliJ / Maven / Jenkins / Travis Cl / Keycloak / Git / GitHub / Gitlab / iPython /
	Languages
German	mother tongue
English	fluent in spoken and written



The Cloud Native Computing Foundation hereby certifies that Johannes Innerbichler

has successfully completed the program requirements to be recognized as a

Certified Kubernetes Application Developer

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DAN KOHN, EXECUTIVE DIRECTOR CLOUD NATIVE COMPUTING FOUNDATION

DATE OF COMPLETION

CERTIFICATE ID NUMBER

September 29, 2018

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