

Lorenz Hofmann-Wellenhof

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github.com/LorenzHW

EDUCATION

University of Passau

B. Sc. Mobile and Embedded Systems, M. Sc. Computer Science

- Grade: 1.8 ~ 3.2 (GPA); expected graduation: February 2020
- Top 20% of 2017 graduation class
- Relevant coursework: Machine Learning, Algorithms and Data Structures, Agile Software Development, Computer Networks, Enterprise Software Architecture, Computer Architecture, Programming in Java, Mathematics in Technical Systems I-III, Computer Engineering

Passau, Germany

October 2014 — Present

Stevens Institute of Technology

Education abroad in M. Sc. Computer Science

- 4.0 GPA; top 3 project in Machine Learning class

New York City, USA

August — December 2018

EXPERIENCE

University of Passau

Graduate Researcher at the Chair of Data Science

- Investigated the effects of variational autoencoders and adversarial examples with Professor Doctor Michael Granitzer; funded by the [SCCH](#)
- Made open-source contributions to the tensorflow (TF) library: Migrated adversarial attack methods (FGSM, PGM, SPSA) from TF 1 to TF 2
- Used technologies: Python, tensorflow, Keras

Remote

July — December 2019

Google Summer of Code

Google Summer of Code participant with API Client Tools at Google

- Implemented the open-source tool [gnostic-grpc](#): A tool that converts OpenAPI descriptions into a description of a gRPC service that can be used to implement that API using gRPC-JSON Transcoding (mentored by Tim Burks and Noah Dietz, software engineers at Google)
- Improved feature completeness of [gnostic](#) by converting the compiled Protocol Buffer representation into equivalent types which are processable by plugins
- Wrote a medium [blog](#) post that explains how to set up a gRPC API with envoy given an OpenAPI description; accumulated over 200 monthly readers
- Representation of this work at the API specification conference in Vancouver by Tim Burks in his [workshop](#)
- Used technologies: Golang, Protocol Buffers, gRPC, OpenAPI, envoy

Remote

May — August 2019

csneovias GmbH

Software engineer (working student)

- Designed and implemented student lifecycle management software for the University of Münster, University of Zurich, and the Goethe Institute; created fronted applications (course registry, courses overview) with my team using agile methodologies; built back end interfaces to provide applications with data
- Used technologies: JavaScript, ABAP, SAPUI5, OData protocol

Passau, Germany

March 2016 — July 2018

PROJECTS

Tik Tok

Creator

- Launched a mathematical brain game as Amazon Echo [Skill](#) where users play against Alexa; accumulated over 13000 monthly users
- Qualified for the Alexa Developer Rewards program due to the high user [engagement](#) (estimated annual income: \$2000)
- Used technologies: Python, DynamoDB, AWS

Graz, Austria

since October 2019

My Telegrams

Creator

- Created an Amazon Echo Skill that enables users to send and to listen to messages via the Telegram Messenger
- Built a web server to connect the Skill to the Telegram API: Set up a REST API with Django and MySQL database; added social authentication, progressive web app support, OAuth, implemented push notification via Firebase; used a Python wrapper to communicate with the Telegram API, and used AWS for deployment; accumulated over 1300 users; a [video](#) of the skill in action
- Used technologies: Python, TypeScript, HTML5, CSS, Sass, Django, MySQL, Angular, AWS

Graz, Austria

October 2017 — January 2019

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Creator

- Implemented a personal webpage with Angular to constitute my projects, thoughts, and world views

Graz, Austria

March 2018 — January 2019

SKILLS

- Languages & Technologies: Proficient in Python, Golang; familiar with TypeScript, JavaScript, NumPy, pandas, SQL, Protocol Buffers, worked with Git, AWS, Django, Angular, Keras, tensorflow, gRPC, Alexa Skills Kit SDK

ACTIVITIES & REWARDS

- Google Hash Code 2018: Rank 1545 out of 3012; Google kick start round B: Rank 1449 out of 2250
- Active member of the student council at the University of Passau: Representing the interests of the students of the faculty
- Volunteer at the TCS New York City Marathon: Handing out drinks to the runners and motivating them
- Google Summer of Code stipend: Awarded \$5400 stipend from Google
- AWS Promotional Credits for Alexa Skill developers: Monthly AWS costs of \$100 are covered