Gerson Foks

Curriculum Vitae

Profile

I am a driven and enthusiastic young professional with a great interest in artificial intelligence. I perform best if a task is intellectually challenging. Furthermore I like to learn and present what I learned to others.

Education

2019 - 2023	**Master of Logic**, *University of Amsterdam*, Grade average: 9.0.
	A study that combines mathematics, philosophy, theoretical computer science, linguistics and artificial intelligence. My main focus is on artificial intelligence. My thesis *Towards efficient Bayes risk decoding*, in which I apply deep-learning models that speed up the quality assessment of translations by approximating the Bayes risk, was awarded with a 8.5.
2013–2017	**Software Science**, *Eindhoven University of Technology*, Cum Laude.
	For the bachelor end project Philips requested a system that would let researchers easily create reports about a clinical database called MIMIC III.

Experiences

Work experience

Oct 2022 – present	**Data scientist**, Nederlandse Spoorwegen, Utrecht.
	At the Nederlandse Spoorwegen I worked at several projects including: statisticial analysis of a questionair about the experiences of the NS staff, automatic the decision process of where each train may ride based on business rules and lastly predicting delays of trains.
March 2022 – present	**Machine Learning Engineer (Volunteer)**, Fruitpunch AI , Eindhoven.
	Fruitpunch.ai applies ai for good by solving real-world challenges. In such a challenge a small team creates a prototype in 10 weeks. I have participated in 2 challenges. During the challenge *AI for Wildlife* we explored the possibilities for landing a drone autonomously. During the challenge *AI for Health* we created a proof-of-concept for a deep-learning model that predicts NT-proBNP values from ECGs.
Dec 2019 - Dec 2020	**Software Trainer (Freelance)**, Young Mavericks , Amsterdam.
	I gave several courses to data scientists and data engineers about software design and artificial intelligence.
Aug 2017 - Jan 2019	**Co-founder**, SmartCrops , The Hague.
	SmartCrops uses insects to upcycle biological waste-streams into animal proteins. As a co-founder I had a variety of roles, for example networking, writing business plans and writing grant applications. We received a grant to build a black-soldier-fly farm.

May 2017 - Aug 2018	**Software Developer (part-time)**, Digital Humanities Lab, University Utrecht.
	Design and creation of software that facilitates research in the humanities. Largest project I worked on was a user-friendly search engine for the exploration of syntactically annotated corpora of treebanks called GrETEL.

Freelance Projects - G. Foks Software Solutions

Jun 2018 - Aug 2018	**TalentConnect**, UpUco, Laren.
	For UpUco I developed an algorithm that would match coaches and coachees in an optimal way.
Oct 2015 - Oct 2016	**MUII**, Ephi Design, Eindhoven.
	For Ephi Design I worked on MUII, a smart lighting system for companies. I designed the database and worked on the front-end.

Training and Courses

May 2018 - Aug 2018	**Accelerator**, GO!-NH, Amsterdam.
	SmartCrops was selected for the accelerator Circular Economy. During this four month bootcamp I learned the ins and outs of entrepreneurship.

Skills

Professional skills

Teaching, Presenting, Teamwork, Writing

Computer skills - languages

Intermediate	Typescript, Javascript, PHP, HTML, SQL, CSS
Advanced	Python

Computer skills - machine learning frameworks

Basic	PySpark, scikit-learn, Keras
Intermediate	Pytorch, Tensorflow

Computer skills - other

Basic	NoSQL databases
Intermediate	Relational databases, Algorithm Design, Testing, Software design

Languages

Dutch	Native tongue
English	Excellent command

Publications

Co-author, Duivesteijn, Wouter, et al. "Have It Both Ways - From A/B Testing to A&B Testing with Exceptional Model Mining." *Joint European Conference on Machine Learning and Knowledge Discovery in Databases.* Springer, Cham, 2017 .

Interests

- RUNNING
- PIANO

- BOULDERING
- DANCING (SALSA, SWING)