Alice Hamberger

www.linkedin.com/in/alice-rose-hamberger2000 https://github.com/alicehamberger alicehamberger@gmail.com | +49 152 058 2089 Born: 30 July 2000 in Berlin, Germany

EDUCATION

UVA, AMSTERDAM

UNIVERSITEIT VAN AMSTERDAM MSc Software Engineering Expected Grad. June 2023

AUC, AMSTERDAM

AMSTERDAM UNIVERSITY COLLEGE HONORS BS IN LIBERAL ARTS AND SCIENCES

Grad. June 2022 GPA: 3.25

BBIS, BERLIN

BERLIN BRANDENBURG INTERNATIONAL SCHOOL Grad. May 2018

COURSEWORK

Requirements Engineering Software Specification, Verification and Testing

Model Based Design of Cyberphysical Systems

Software Evolution

DevOps and Cloudbased Software

Software Process

Text Mining

Quantum Information & Communication

Machine Learning

Advanced Programming

Data Structures & Algorithms

Philosophical Logic

SKILLS

PROGRAMMING

LANGUAGES:

Python • Haskell • Lisp • HDL • Tools:

Git • ATFX • Emacs

LANGUAGES

FLUENT:

English, German

INTERMEDIATE:

Dutch, French

PROJECTS

VISUAL MODELLING | MS THESIS AT AXINI

In progress. RQ: Effectively Visualizing a DSL.

HAT GMM: HYBRID ADVERSARIAL-THRESHOLD GAUSSIAN MIXTURE MODEL FOR SUBDOMAIN EXTRACTION | BS THESIS AT

MACHINE LEARNING PROGRAMS

Training multivariate gaussian mixture models to augment a smaller dataset with datapoints from a larger dataset.

A SENTIMENT ANALYSIS OF GENDER INCLUSIVE HEADLINES

TEXT MINING

Training recurrent neural networks to analyze how gendered words are featured newspapers headlines.

LATTICE-BASED QUANTUM CRYPTOGRAPHY

QUANTUM INFORMATION & QUANTUM COMMUNICATION

Analyzing lattice-based scheme in quantum cryptography to fend of cyber attacks.

SIRS COVID-19 MODEL | MODELLING REAL WORLD PROBLEMS

Modelling the spread of COVID-19 as a contact network using SIRS as a framework and the Haslemere data set. Analyzing the effect of "contact bubble" size on the spread of COVID-19.

EXPERIENCE

MACHINE LEARNING PROGRAMS | DATA SCIENTIST INTERN

Jan 2022 – Feb 2022 Amsterdam

Worked on & wrote narratives about:

- machine learning algorithms for data analysis
- creating mathematical functions for risk analysis of data re-identification

KABOOM ANIMATION FILM FESTIVAL

FLOOR & WEBSITE MANAGER

Feb 2021 - April 2022 | Amsterdam, Netherlands

- updating and improving previous website content
- managing auditoriums during the festival
- managing volunteer's duties during the festival

INTERNATIONAL DOCUMENTARY FILMFESTIVAL AMSTERDAM

LOCATION MANAGER

November 2022 | Amsterdam, Netherlands

- contact with suppliers
- volunteer management

BERLIN BRANDENBURG INTERNATIONAL SCHOOL | TUTOR

Oct 2016 - Feb 2018 | Berlin, Germany

Tutoring International Baccalaureate Diploma Programme (IBDP):

Mathematics & Chemistry (Higher Level)