Xiaoyu Yin

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St. Petersburger Str. 5, 01069 Dresden

Education

Technische Universität Dresden — Dresden, Germany
M.Sc. in Computational Logic | Overall Grade: 1.9 — *Oct 2015 – Jan 2019*

- **Main courses**: Knowledge Representation, Logic and Constraint Programming, Advanced Logics, Ontology and Database Systems

Xi'an Jiaotong-Liverpool University | University of Liverpool — Suzhou, China
B.Sc. in Information and Computing Science | Overall Grade: 74 (First-Class) — *Sep 2011 – Jul 2015*

- **Main courses**: Algorithmic Foundations and Problem Solving, Complexity of Algorithms, Data Structures, Artificial Intelligence, Advanced OO Programming, Bio-Computation, Big Data Analytics, Advanced Web Technologies, Principles of Computer Games Design

Technical Skills

- **Programming**: Java, C++, Python, Kotlin, Swift, Javascript, Prolog
- **Software**: Git, Xcode, Android Studio, VS Code, Protégé
- **Familiarity with Libraries**: Android SDK, iOS UIKit, Tensorflow, Reactive Programming
- **Operating System**: macOS, Windows, Linux

Work Experience

Boosal Thintec. Co., Ltd. — Suzhou, China
Software Engineer (Java) — *Sep 2014 - Aug 2015 (1 year)*

- Designed and implemented a prototype client in Android for IoT applications
- Managed backend database (MongoDB) APIs

Projects

MensaPlus - Dresden Mensa App
Individual Mobile App (Android/iOS) — *Jan 2017 - Present*

- Implemented web crawlers in Java/Kotlin/Swift/Dart to parse and download data from websites
- Published on Google Play (link) / App Store (link) with in total 500+ daily active users during semesters

Translating Natural Language to SPARQL
Master Thesis (Python/Shell) — *Jul 2018 - Jan 2019 (6 months)*

- Researched on the evaluation of eight neural machine translation models (CNNs, RNNs) on the task of translating natural language to structured query language SPARQL
- Conducted experiments of Tensorflow and PyTorch on Linux (High Performance Computing)
- Github repository at: https://github.com/xiaoyuin/tntspa

Generating Math Word Problems with Question Generation
Master Project (Java/Kotlin) — *Oct 2017 - Feb 2018 (5 months)*

- Utilization of StanfordNLP to parse math word questions

Video Object Retrieval System
Bachelor Final Year Project (C++) — *Sep 2014 - Jun 2015 (10 months)*

- Applied machine learning algorithms in image feature extraction and image classification
- Utilization OpenCV for computer vision and Qt for graphical interface

Other

- **Human Language**: English (Proficient), Chinese (Native), German (Basic)
- **Interests**: Watching and playing Basketball (Junior), Photography (Rookie), Billiard (Senior)