

# Shaoyan Li



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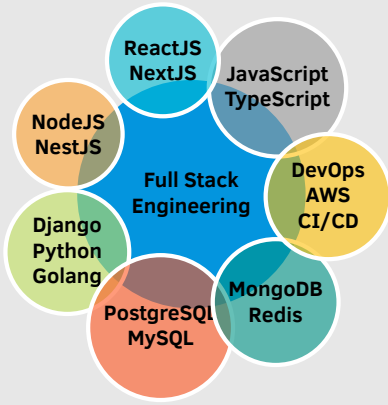
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## Skills

### Overview



### Programming

VSTO • .NET • Unity • C#

Javascript • Typescript

HTML5 • CSS3 • Reactjs • Nextjs

Django • Golang Framework

SQL • Cloud

Python Deep Learning Framework

C++ • GLSL Shader

## Internship

**Huawei Technologies Co. Ltd**

Jun 2019 - Sep 2019

Software Engineer Intern at cloud opening labs

- Designed, developed, and deployed microservices architecture in Python.
- Conducted end-to-end (E2E) testing on mobile applications for clients.

## Education

Sep 2020 -  
Feb 2024

**Master of Science, Informatics** (GPA: 5.2/6)  
**UZH**

Zürich, Switzerland

Sep 2016 -  
JUL 2020

**Bachelor of Engineering, Automation** (CGPA: 86.38/100)  
**Xi'an Jiaotong University (XJTU)**

Xi'an, China

## Work Experience

Apr 2022 -  
present

**Software Development**

YanTuTech

*Full Stack Engineer (part-time)* working on multiple tasks

- Implemented and developed a PowerPoint add-in using C# and VSTO (Visual Studio Tools for Office).
- Migrated the frontend from Electron to Tauri, a cross-platform React framework, enhancing flexibility and functionality.
- Utilized three.js, and WebGL to create appealing protein and DNA/RNA visualizations.
- Developed the backend using Django for efficient user management, individual/group subscription, and delay task dispatch.
- Enhanced user experience by fine-tuning models and integrating AI functionality such as style transfer and 2D to 3D conversion.
- Maintained Docker, Nginx, elastic container/database, and serverless services for seamless project deployment.
- Implemented CI/CD scripts for automated project deployment and monitored projects using Prometheus and Grafana.
- Designed and developed several websites using React.js and Next.js framework, offering an AI-powered scientific journal cover generation service for biology researchers.

## Research Experience

Feb 2023 -  
Sep 2023

**Unsupervised 3D Reconstruction**

UZH

*Master Thesis* at VMML group

- Reconstructed 3D point cloud and object with self-supervised nurbs deep learning framework.
- Built a visualization interface based on QT to showcase the pipeline.

Dec 2021 -  
Jul 2022

**Dialog System for Guided Health Coaching**

UZH

*Master Project* at IMRG group

- Designed and built an intelligent dialog agent (dialog-based AI).
- Recognized context and performed various reactions according to different prompts.
- Cooperated with a start-up, juli (website: juli.co), to further develop the chatbot to serve for asthma patients.

Mar 2021 -  
Jun 2021

**Implementation of Attentional Recurrent Neural Network for Human Mobility Prediction**

UZH

*Master Basic Module* at DBTG group

- Implemented and described the ARNN network.
- Predicted human mobility and upper limit estimation on dedicated datasets based on DeepMove algorithm.