

Yue Deng

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EDUCATION

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| University of Southern California(USC), Los Angeles, CA, USA • Master of Science in Computer Science | Expected May 2023 3.94/4.0 |
| University of British Columbia (UBC), Vancouver, BC, Canada • Bachelor of Science, Major: Computer Science | Sep. 2016 - May 2021 Top 5% International Student Scholarship |

PROFESSIONAL SKILLS

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| Programming: | Python, Java, C/C++, JavaScript, TypeScript, PHP, Julia |
| Database: | SQL, MongoDB, PostgreSQL, BigQuery, Firebase, MySQL |
| Web: | Angular, React, HTML, Node.js, Flask, Bootstrap |
| Other: | Pandas, Tensorflow, Keras, Pytorch, Numpy, SciPy, Pillow, AWS, GCP, Spark, JUnit testing |

INDUSTRIAL EXPERIENCE

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| Qilin Technologies Software Developer | Jan. - Apr. 2021 Beijing, CN |
| <ul style="list-style-type: none">Built backend APIs with Python Flask to select and combine useful human skeleton key points and contour key points to provide real-time queryingDesigned and built a front-end tutorial web page using React and JavascriptImplemented the augmented classifier with angle checking, proportion of body segment checkingPerformed unit testing and end-to-end testing on 8 app functions cooperate with other full stack developers per month before launching the new features | |

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| Zscaler Inc. Machine Learning Engineer | May - Aug. 2022 San Jose, CA |
| <ul style="list-style-type: none">Built an object-oriented analysis manager for fetching and processing raw dataSelected relevant features by performing various aggregation operations on BigQueryTrained a basic upselling detection model and optimized by using LightGBM and Catboost models using data from 6sense to improved the accuracy rate from 56% to 75%Visualized and interpreted the impact level of each feature with SHAP | |

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| UBC R&D Computer Engineer & AI Assistant | Jan. - Aug. 2020 Vancouver, BC |
| <ul style="list-style-type: none">Utilized Keras to implement the inference script of the Knowledge Distillation modelApplied multiple Tensorflow and Horovod distributed training strategies to save 1/3 training timeExperimented with the rotational-invariant features and Kalman filter to fine-tuning the modelBuilt the data processing pipeline to make result of OpenPose model compatible with D-chipUsed the PostgreSQL to execute spatial queries and compute convex hull and nearest neighbor | |

PROJECT EXPERIENCES

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| Stock Trading Website | Jan. - Apr. 2022 |
| <ul style="list-style-type: none">Built a full-stack web application which supports real-time stock price and graphic trend searching, portfolio and watchlist management and obtaining latest financial news on AWSImplemented and designed the frontend using Angular and Bootstrap using JavascriptBuilt the backend APIs to acquire and pre-process the stock information with Node.js | |
| Top Popular Song Engine | Aug. - Dec. 2022 |
| <ul style="list-style-type: none">Designed and built RESTful APIs with Python Flask to make connection between frontend Web and database and pre-process more than 100,000 of songs data obtained from Tiktok and SpotifyBuilt an emulated distributed file system (EDFS) with Firebase Realtime database and MongoDB Atlas supporting mkdir, ls, cat, rm and put operationsApplied PySpark to support user querying and show the resurgence of nostalgic songs | |
| The Little Prince Game: (RPG Game & Similar to Super Mario) | Sep. - Dec. 2020 |
| <ul style="list-style-type: none">Implemented the entrance level and main sprite animation using C++ with Entity Component System designApplied exact collision checking and collision checking with bounding boxRealized mouse and keyboard interaction using GLFW for main sprites controllingDesigned and implemented auto chasing and shooting between sprites with GameAI | |
| Buses Are Us Android App | Apr. - Sep. 2019 |
| <ul style="list-style-type: none">Implemented the Unified Modeling Language model of the application to store and organize bus stop, bus route and arriving time with JavaPerformed JUnit testing with an Android emulator to improve code quality and shorten the development time by 1/4 | |