ALVIN HSIEH

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SUMMARY

• Highly motivated software engineer with web development and ML experience.
• Side project experience includes programming with Python, Java, JavaScript and MySQL for human action classification, self-driving cars, Android App development and React App development.
• Demonstrated communication and teamwork skill as well as the ability to accomplish tasks efficiently

CORE SKILLS

• Programming Languages: Python, JavaScript, Java, C#, C++
• Web Development: React, Redux, NodeJS, MySQL, MongoDB, HTML5, CSS, Bootstrap.
• Machine Learning, AI, Deep Learning, Reinforcement Learning, CNN
• Others: Git, Android Studio, JUnit, Keras, Numpy, Pandas, OpenCV, MATLAB, Postman, Launchdarkly, Jenkins, Visual Studio, docker, AWS

WORK EXPERIENCE

Software Engineer
iHerb, Irvine, CA, 05/2019 - current
- Develop, enhance and support new / existing software system, applications
- Software modeling, simulation, testing and quality assurance

Grader in Machine Learning course
Georgia Institute of Technology, 08/2018 - 12/2018
- Responsible for grading students' assignment in Machine Learning class.

Design Engineer
Kilopass Technology (acquired by Synopsys), San Jose, CA, 08/2016 - 05/2019
- Developed automated IP level simulation flow by Python for design team to use, including data collection and chip verification.
- Designed analog integrated circuits with advanced CMOS technology.

SIDE PROJECT EXPERIENCE

Human action classification using MHI (Python, Computer Vision, Machine Learning, OpenCV)
- Project result (video): https://youtu.be/E7JYqRyvqD8
- Use MHI and MEI to generate Hu moments as ML features, then choose k-NN as training model for Human action recognition(walking, jogging, running, boxing, clapping and waving).

Lunar Lander (Python, Deep Reinforcement Learning, DQN, Keras, OpenAI gym)
- Train the lunar lander to land in the target area with Deep RL and DQN technique.
- Implement the Neural Network using Keras.

EDUCATION

• Georgia Institute of Technology 12/2019
MS in Computer Science (GPA: 4.0/4.0)