# ALVIN HSIEH

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## SUMMARY

- Highly motivated software engineer with backend development and ML experience.
- Demonstrated communication and teamwork skill as well as the ability to accomplish tasks efficiently
- 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.

## WORK EXPERIENCE

**Software Engineer, Amazon**, Irvine, CA, 04/2020 - current
Backend developer for Alexa purchasing service. (**Java**)
- Developed an internal service from scratch with AWS **CDK** (IAC) and AWS **Lambda** to reduce verification time by 30%.
- Developed, enhanced and released new / existing features of Alexa purchasing services.

Tech Lead of APL(Alexa Visual Design framework) migration project. (**Java**, APL)
- Improved Customer interactive voice and visual experiences across the Alexa device.
- Provided project estimation and distributed the implementation work. (task breakdown)
- Created documents for technical requirements, design, deployment and other relevant items.
- Communicated and collaborated with other teams(QA, PM) to ensure quality development and service delivery,
- Provided weekly status reports.

**Software Engineer, iHerb**, Irvine, CA, 05/2019 - 04/2020
Backend developer for Checkout Order, Payment, and Shipping Services. (**C#**, **MySQL**)
- Developed, enhanced new / existing features of checkout and payment service.
- Launched new payment service in new marketplaces.
- Supported CI/CD pipeline management for Test / Prod environment with Jenkins, Docker, Kubernetes, Kibana, Grafana and Prometheus.

**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 simulation flow with Python, including data collection and verification.

## 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 a training model for Human action recognition(walking, jogging, running, boxing, clapping and waving).

## EDUCATION

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