Ashly Lau

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EDUCATION

Imperial College London
Direct Masters in Computing with Artificial Intelligence (MEng), Sep 2017 – Jun 2021
- Modules: Performance Engineering, Databases, Operating Systems, Networks, Compilers, ML, Algorithms
- Current Cumulative Grade: 3.91/4.00

EXPERIENCE

Google
Software Engineering Intern, May 2020 – Present
- Improved user growth for the Google Pay app by developing the backend for a new onboarding feature which reduced onboarding time by 9 seconds

Imperial College London
Undergraduate Teaching Assistant - Programming, Sep 2019 – Mar 2020
- Taught introductory lessons on Haskell and Java programming
- Introduced good software engineering practices through reviewing and grading weekly programming exercises

Google
STEP Intern, Jul 2019 – Sep 2019
- Developed a data visualization Android app as a proof of concept to further areas of research for the RMI team
- Implemented an on-device data collection pipeline and performed data analysis using TFLite

HP Inc.
Software R&D Intern, Jul 2018 – Sep 2018
- Improved scanner workflow with an Android app which uses a TensorFlow model to classify scanned documents
- Designed an algorithm to automatically crop and rotate scanned documents (patent pending)

PROJECTS

StitchCall - Implemented real-time image segmentation and games for video chats to improve the video calling experience using OpenCV, TFLite, WebRTC and Flask (Winner of IC Hack 2020)
CHARJE - Implemented autonomous agents which use ML models and strategies to interact with a blockchain prediction marketplace
Cinect - Developed a group movie selection mobile app using React Native, Django and PostgreSQL, with emphasis on human-centered design and rapid iteration based on user feedback
AI Hack 2018 - Developed models to predict severity of road accident casualties using traffic accident data
PintOS - Led a team of 4 coursemates to strengthen support in thread scheduling and added virtual memory implementation for PintOS

SKILLS

Languages - Java, Python, Dart, C, C++, JavaScript, Haskell, Prolog, HTML5, CSS3
Others - Git, Mercurial, React Native, React, Android Development, Flutter, GatsbyJS, TensorFlow

MISC

Leadership
- Served as an Academic Rep for the Singapore Society: Facilitated orientation activities, mentored incoming students and served as a point of contact for the batch of Computing and Mathematics students
- Awarded the EAGLES (Edusave Awards for Achievement, Good Leadership and Service) yearly from 2011 - 2016

Singapore National Team, Artistic Gymnastics
- Represented Singapore in numerous international competitions, including the 2014 Commonwealth Games

Work Authorization
- Singaporean Citizen; Eligible for the H-1B1 Singapore visa which is separate from the H-1B pool