

ARTHUR LEUNG

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AREA PROJECTS

Mobile/ Web	Architected custom electronic referral system for physicians to use at http://agapeclinic.ca Published MoBooru on Google Play; an art and design app with 1000+ users and 4.3+ star reviews
Networks	Built a simulator in C++ for stochastic CSMA/CD collision analysis
Dist. Systems	Completed coursework utilizing Zookeeper, Hadoop, Spark, and Kafka
ML	Utilized Tensorflow and PyTorch in imaging applications for autonomous vehicles course
Big data	Analyzed P2P usage from 8 million+ torrent metadata entries (Openbay Project) in a self study paper
FOSS	Published open source IP Camera viewer + PTZ controller for D-Link 5020 and 5010L series products

UNIVERSITY OF WATERLOO

2015-2020

Computer Engineering, BSc
President's Scholarship of Distinction by UWaterloo. Awarded bursary by Camp #3 of Iron Ring Ceremony (Kingston)
Recipient of Governor General's Academic Medal (Bronze)

SOFTWARE ENGINEER LIFION BY ADP

09/2019
MANHATTAN NY

Bolstered API reliability by implementing in-house Design by Contract software design pattern
Developed tooling to support microservices using graph providers (AWS Neptune, DSE)

FULL STACK DEVELOPER TESTFIRE INC.

09/2018
EDMONTON AB

Developed NodeJS microservices on Azure to ingest, process and store both audio and text
Designed and composed responsive React user interface for Hendrix.ai transcription service

SOFTWARE DEVELOPER BAYER AG.

01/2018
MISSISSAUGA ON

Automated DICOM and HL7 testing with Ranorex and Jenkins, lead DoD STIG review effort
Provisioned ESXi hypervisor hosts in vCenter, analyzed and mitigated threats in guest OSes

FULL STACK DEVELOPER ULTIMATE SOFTWARE GROUP INC.

09/2016 - 04/2017
TORONTO ON

Contributed to iOS, Android app in Ionic/Cordova; integrated TurboTax with UltiPro product
Helped team secure first place in corporate hackathon; voice assisted AI (Google Dialogflow)

SOFTWARE DEVELOPER NOKIA NETWORKS INC.

01/2016
OTTAWA ON

Designed and implemented REST APIs for VLAN management suite (NI Guardian, Surveyor)
Integrated BPMN/ workflow functionality between products effectively through REST APIs

RESEARCH ASSISTANT QUEEN'S UNIVERSITY

06/2014
KINGSTON ON

Trained classification model in R from big data set; spoke in SAIL 2014 summer conference
Presented Thesis at conference: Likelihood of Academic Authors Becoming a PI

REPertoire

.NET
Android SDK
AngularJS
AWS Neptune
Azure
C++/C
Docker
Gremlin
Hadoop
Illustrator
Ionic
JenkinsCI
Kafka
Kotlin
Kubernetes
LaTeX
MySQL
NodeJS
OpenCL
OpenMP
Photoshop
Postgres
Python
R
Ranorex
ReactJS
Spark
Spring
TypeScript
VMware ESXi
VueJS