Abilarsh **Vijiananthan**

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Skills

Languages	Python, Java, Groovy, C, HTML, CSS, JavaScript
Technologies	AWS, Git, Arduino, Linux, Android Studio, Selenium, Docker, Kafka, OpenCV

Experience

Amazon Web Services (AWS)   *Toronto, Ontario*
PROFESSIONAL SERVICES INTERN (IN PROGRESS)   *June 2021 - August 2021*
- Architected a serverless infrastructure for a web app utilizing S3, Lambda, DynamoDB, and CloudFormation
- Built CodePipelines for the website and backend Lambda APIs using CloudFormation
- Completed the AWS Certified Cloud Practitioner exam

Loblaw Companies Limited   *Brampton, Ontario*
ANALYST INTERN - INTELLIGENT AUTOMATION   *Apr 2020 - April 2021*
- Developed automation use-cases with **Groovy, Selenium, Powershell and Bash** to reduce IT Tickets
- Conducted meetings to understand business processes and automation possibilities
- Assessed potential benefits and savings of automation for business processes

McMaster University   *Hamilton, Ontario*
TECHNICAL ASSISTANT   *May 2019 - Aug 2019*
- Developed in house, end-to-end **LoRa** network and infrastructure using **Docker, RPi, InfluxDB and Arduino**
- Created **Android** app comparing access times between MQTT, RabbitMQ (AMQP), Kafka, and DDS
- Set up **Kafka** pipeline from OPC UA Server to retrieve server cooling data for monitoring and visualization
- Built IoT demo station showcasing various microcontrollers and communication protocols to guests

Projects

Smart Unlock (UoftHacksVI)   *Toronto, Ontario*
HTTPS://GITHUB.COM/ABILARSHVIJI/UOFTHACKSVI   *Jan 2019*
- Developed an **Android** App that allows the user to authenticate face and allow user to unlock the vehicle
- Set up SmartCar API backend using **Python** and Flask to handle unlocking the vehicle
- Utilized **Microsoft Azure's** Face API (Face Verification) to verify facial features

Boston Sidewalk Ratings (BostonHacks)   *Boston, Massachusetts*
HTTPS://GITHUB.COM/ABILARSHVIJI/BOSTONHACKS2018   *Nov 2018*
- Built an **image classifier** that determines the quality of sidewalks for the City of Boston
- Gathered 400 images for training data by scraping Google Images using **Python**
- Trained image recognition model using Microsoft's CustomVision.ai
- Tested model with images gathered from the Google StreetView API, and outputted the results to a webpage

GIGO Robotic Arm   *Hamilton, Ontario*
ENGINEER 1P03 - FINAL PROJECT *(Video Linked)*   *Sept 2017 - Dec 2017*
- Created 4 bar linkage arm to lift garbage cans for client who has cerebral palsy
- Utilized linear actuator, **Arduino**, joystick, and 3D printed components to develop arm

Education

McMaster University   *Hamilton, Ontario*
B.ENG IN ELECTRICAL ENGINEERING CO-OP, 4TH YEAR   *Sept 2017 - Present*
- Expected Graduation: Spring 2022

Online Courses
UDEMY/LYNDA.COM
- Audited courses on Groovy, Docker, OpenCV, JavaScript, HTML, and CSS