

# Arpit Patel

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## SKILLS

### LANGUAGES

JavaScript • Java • Python  
Scala • C • C++ • Bash  
Swift • Objective-C

### FRAMEWORKS

Node.js • Flask • Spring  
AngularJS • React Native  
Native iOS • Native Android

### TESTING

JUnit • Mockito • XCTest

### OTHER

AWS • Google Cloud • Azure  
Heroku • Kubernetes • Docker  
Git • Linux/Unix • Elasticsearch  
Dialogflow • MavLink

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BS IN COMPUTER SCIENCE

September 2015 - May 2020

##### Relevant Coursework:

- Object-Oriented Programming
- Algorithms
- Operating Systems
- Distributed Systems
- Networks
- Security

## EXPERIENCE

### ESENTIRE | SOFTWARE ENGINEER INTERN

September 2019 - December 2019 (Future) | Waterloo, ON

- Will be developing highly available and scalable services using AWS, Terraform, etc

### AMAZON.COM | SOFTWARE ENGINEER INTERN

May 2019 - August 2019 | Vancouver, BC

- Avoided forecasted 15% increase in manual retry rate by implementing automatic retries on system healthy notifications using AppSync, Lambda, DynamoDB, Spring, and AngularJS
- Reduced bulk workflow execution time by 50% for 60k+ Amazon Associates by eliminating redundant polling per product id
- Raised test coverage by 7% by unit testing all changes made using JUnit and Mockito

### LCBO | SOFTWARE ENGINEER INTERN

September 2018 - December 2018 | Waterloo, ON

- Improved product search accuracy by 68% using prefix matching
- Determined relevant parameters for the Elasticsearch configuration by implementing a scoring algorithm in Python
- Enabled voice search by building a Node.js service that utilizes Dialogflow
- Developed a cocktail mixing iOS app to guide usage of LCBO products

### TAPLYTICS | SDK ENGINEER INTERN

January 2018 - April 2018 | Toronto, ON

- Reduced vital view load time by 50% for a client's app by improving the iOS SDK's view swizzling lifecycle
- Shipped and implemented entire mobile side of launch control, which achieved 3rd place on daily *product hunt*
- Resolved various client issues by reverse engineering them using Apktool
- Fixed long-standing React Native SDK bugs and implemented native bridge methods
- Unit tested all changes made using XCTest and Mockito

### 3CONX | IOS DEVELOPER INTERN

May 2017 - August 2017 | Waterloo, ON

- Ported MavLink enabled drones by building an SDK using the MavLink Protocol
- Increased drone communication range by 3 km by developing a UART bridge
- Mitigated potential battery damage by implementing a 'safe' flight capacity feature

### L'FOCUS CONSULTANCY INC. | IOS DEVELOPER INTERN

May 2016 - August 2016 | San Jose, CA

- Developed iOS port for Pharmaceutical app, SnapRx (10,000+ downloads)
- Reduced login and registration time by implementing form auto-fill

## PROJECTS

### VIDZAM | IDENTIFIES MUSIC IN A SEGMENT OF A VIDEO

- Managed music identification by developing and deploying identification and authentication microservices
- Improved scalability by containerizing and orchestrating automated deployments using Kubernetes and Docker
- Added security measures by sanitizing input, utilizing authentication tokens, throttling, and queuing requests
- Tech Stack: EC2, GKE, Docker, Node.js, Swift, FFmpeg, ACRCLOUD