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

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

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 for Amazon Associates by 50% by utilizing meta-data from previous network call to avoid redundant polling per product id

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