

# Cliffon Fernandes

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## EDUCATION

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- **Rochester Institute of Technology** Rochester, NY  
*Master of Science in Computer Science; GPA: 3.74* Aug. 2017 – Dec. 2019
- **University of Mumbai** Mumbai, India  
*Bachelor of Engineering in Information Technology* Aug. 2009 – May 2013

## PROGRAMMING SKILLS

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- **Languages:** Java, Python, Javascript, C++, Clojure
- **Frameworks:** Spring Boot, Django, AngularJS, Odoo, JQuery
- **Databases/Datstores:** PostgreSQL, MySQL, Redis, MongoDB

## EXPERIENCE

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- **Expedia Group** Seattle, WA  
*Software Dev Engineer I* Jan 2020 - Present
  - Part of the Lodging Booking Technology team which connects and fulfills Expedia hotel bookings across all of Expedia's brands.
- **Skillz Inc.** San Francisco, CA  
*Software Engineer Intern* Aug 2019 - Dec 2019
  - Worked on the Server team to convert parts of the monolithic backend to a microservices architecture.
  - Analyzing and improving the performance of existing backend services to support 600% increase in load (~ 2M DAU).
- **Soleo Communications** Rochester, NY  
*Software Engineer Intern* May 2018 - Aug 2018
  - Built a data aggregation and analysis system to analyse and fine-tune the quality of a speech-to-text service.
  - Built a tool to view configuration files loaded from multiple services for easier management of multiple systems.
- **Credr** Mumbai, India  
*Software Development Engineer 3* Aug 2015 - July 2017
  - Credr Connect: Designed and developed the backend services for a real-time app based auctioning system.
  - Built a Lead Management System, increasing the number of leads handled by an executive from 20/day to 45/day
  - Built the Accounting and Invoicing system, reducing payment grievances by 90% and TAT from 3 days to 1 day.
  - Developed the Calendar module for scheduling customer meetings.
  - Built and deployed a service that integrated the core backend with Salesforce.
  - Migration of the monolithic system to a microservices architecture.
  - Developed REST APIs with user permissions and authentication.
  - Responsibilities also included leading and managing a team.
- **Zaya Learning Labs** Mumbai, India  
*Full Stack Software Engineer* May 2014 - July 2015
  - Built the data synchronization framework for a distributed system of intermittently connected devices.
  - Extended the Django ORM for softdeletion of records from databases along with cascade softdelete and undelete features.
  - Built a module for remote administration of devices.
  - Built a custom android home screen launcher to restrict access to the device used by K12 students.

## ACADEMIC/PERSONAL PROJECTS

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- **Hyperledger Fabric:** Worked on distributed consensus protocols and smart contracts on a permissioned blockchain network to improve network throughput.
- **Alto Compiler:** Built various phases of a compiler: lexical analysis, parsing, type checking, code generation and optimization using the functional programming language Clojure.
- **Message Queuing Protocol:** Implemented a message queuing system in C++11 which acts as a Message-Oriented Middleware for interoperability between distributed systems. Implemented features like queuing, routing based on topics, pub-sub pattern etc.
- **Email Classification using Parallel Computing:** Implemented a massively parallel k-NN implementation for spam classification on a cluster computer using Parallel Java 2 with near ideal strong and weak scaling.
- **Chota: URL Shortener:** <https://chota.cliffon.io> : Spring Boot, JQuery, PostgreSQL.