# Krit Goyal
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## EDUCATION

**Northeastern University,** Boston, MA                                            Sept. 2018 - Present
**Khoury College of Computer and Information Sciences**          Expected graduation: Dec 2020
*Candidate for Master of Science in Computer Science,* **GPA: 4.0./4.0**
Related courses: Large-Scale Parallel Data Processing, Data Mining Techniques, Information Retrieval, Game AI, Programming Design Paradigm

**Birla Institute of Technology and Science(BITS) Pilani,** Rajasthan, India                  May 2017
*Bachelor of Engineering in Electrical and Electronics Engineering,* **GPA: 7.78/10**
Related courses: Machine Learning, Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Micro-processors, Digital Design, Foundations of Software Engg.

## TECHNICAL KNOWLEDGE

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|---|---|
| **Scripting:** | Kotlin, Go, Java, Python, C#, Scala |
| **Web technologies:** | React.js, Typescript**,** Vue.js, Node.js, Express.js, PHP7 |
| **Databases:** | MySQL 5.7 & 8, DynamoDB, Firebase, MongoDB, sqlite3 |
| **Distributed Systems:** | Hadoop Map-Reduce, Spark |
| **Others:** | AWS, AWS CDK, Docker, Git, Firebase |

## WORK EXPERIENCE

**Amazon,** Santa Barbara, CA
*SDE, Intern, Graphiq Platform Team*                                          June 2020 - Aug 2020
- Built the new production ready background job scheduler for Graphiq using AWS CDK
- Enforced multi-layered security including VPCs, private subnets, IAM Auth and encryption
- Wrote unit and integration tests with near 100% code coverage
- Compiled extensive documentation and Runbook

**UpToDate, Wolters Kluwer,** Waltham, MA
*Web Developer, Intern, CORE team*                                             Jan 2020 - May 2020
- Worked in the core team on tickets including UI/UX enhancements(angular.js, jsp) and backend micro services (Java, Springboot)
- With 2 other interns, built a much needed data migration tool between databases(stage, prod, dev)
- Used node.js and express.js for backend, vue.js for frontend
- Added comprehensive documentation and unit tests
- Followed bi-weekly agile scrum-ban methodology
- Dockerized the core UpToDate application and compiled setup instructions document

**mHealth Research Group,** Boston, MA
*Graduate Research Assistant, Android and Machine Learning Engineer*             Oct 2018 - Dec 2019
- In a team of 5, developed intelligent Android apps for phone and smartwatch to collect data, analyze and constructively affect user behavior of over 200 participants for an NIH funded study
- Used self-report methods, and device sensors like accelerometer and heart rate monitor for 24x7 data collection
- Utilized Firebase for database, storage, authentication, and app crash analysis, involving 10-20 GB of data per day
- Leveraged machine learning for user data analysis and build context-sensitivity, DBSCAN for location clustering
- Reduced data storage and transfer over network by 65% using differential encoding

## PROJECTS AND ACTIVITIES

**Browser Automation,** WorkerB                                             Jan 2020 - April 2020
- https://docs.workerb.io/
- Docker containerized server using Golang, Dgraph, sqlite3 and MySQL db, redis caching, leader election

**Business management for MSMEs,** YDlay.shop                                April 2020 - Present
- https://play.google.com/store/apps/details?id=com.tiklyo.ydlay
- Used Kotlin for frontend, Golang for backend, sqlite3 and MySQL db with redis caching. Deployed on AWS

**Optimizing compiler inlining with Machine Learning,** DMT, NEU                 June - Aug 2019
- Achieved 18.8% speedup by modifying NEAT-python to model and explore topologies for deep Neural Networks, execute our modified Glasgow Haskell Compiler(GHC), and benchmark using NoFib