

# Alex Knish

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## PERSONAL SUMMARY

I'm a researcher and senior ML developer with academic degrees from the leading universities in Israel, majoring in Data Science and Big Data. Throughout my work experience, I have been involved in projects that engaged with Machine Learning models, Big Data technologies, Mobile and pure backend projects. I have the ability to manage complete project life cycles, from requirements stage, design, implementation, building ML prototype, design database, to full production system. I have experienced and enjoyed every piece of it.

## WORK EXPERIENCE

2019 – Today **Tel Aviv University,**  
**Researcher**

Research fields: biometric authentication, computer vision, dimensionality reduction, deep learning, machine learning.

### Development Environment:

Image processing and machine learning libraries :

- OpenCV
- Dlib
- Scikit-learn
- Tensorflow
- Crème
- Keras

2018 – 2020 **Lusha, Tel-Aviv**

### **Senior Backend & Machine Learning Engineer - Data Team**

Responsible for definition, design, implementation from scratch of high-performance projects based on machine learning (ML) models. Conducts regular learning workshops on various topics such as knowledge transfer, new technologies and clean code. Manage developer team tasks with full transparency.

### Development Environment:

- Languages: Python 3.6, bash
- Search engine: Elasticsearch
- DBs: S3, MySQL, Cassandra
- Gateway – Kong
- Web server- Ngnix
- Web framework : Flask
- Version controller: Bitbucket
- System Dashboard: Jira
- Operating systems: Linux, IOS
- Web Service – AWS

2015 – 2018 **Citi Innovation lab, Tel-Aviv**

### **Software Engineer / Big Data Developer**

Lead developer of recommendation and prediction projects. My responsibilities involved: re-design, performance improvements, defining validations, implementing new features and deployment. Projects included working closely with data scientists in different aspects.

### Development Environment:

- Languages: Python 2.7, Java 7, Scala, bash
- Testing framework: unittest
- Big data technology: Hadoop, Hive(cloudera), Impala, Spark
- Version controller: GIT Stash
- PM Methodology: Agile/Scrum
- System Dashboard: Jira
- Operating systems: Linux, Windows

2014 – 2015 **Deutsche Telekom, Be'er-Sheva**

### **Java Developer – Research Assistant**

Collecting mobile sensors data from app users and analyzing their behavior.

- Languages: Java 7
- Testing framework: Junit
- Data-base: MongoDB

2013 – 2014 **IBM, Java Developer**

A key developer in a research project, that deals with cyber-attacks on a computer network.

- Program Language: Java

▪ ACADEMIC QUALIFICATIONS

2017 - 2020 M.Sc. Industrial Engineering and Management

Major in Data Science, Computer Vision and Big Data.

Tel-Aviv University

2012 - 2015 B.Sc. Software and Information System Engineering

Major in data mining and artificial intelligence

Ben-Gurion University

- Graduated with Honors.

- Certificate of Appreciation for Academic Excellence.

▪ MILITARY SERVICE

2004 – 2007 Armament Development Unit, infantry.