

Albert Mukhametov

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EDUCATION

- **University College London (UCL)** London, UK
*Bachelor of Science in Computer Science; Grade Achieved: **1st Class*** 2019 - 2022
 - Relevant modules taken: Software & Systems Engineering, Concurrency & Architecture, Security, Logic & Database Theory, Mathematics & Statistics, Compilers
- **The International School of Azerbaijan (TISA)** Baku, Azerbaijan
International Baccalaureate Diploma Programme (IBDP); Grade Received: 40/45 (top 3.6%) 2017 - 2019

EXPERIENCE

- **NLP & Data Mining Research - Intern** (GitHub) London, UK
University College London June 2021 - Present
 - Leveraged **Latent Dirichlet Allocation** (LDA) & **Support Vector Machine** (SVM) algorithms to classify 200,000+ publications and 300,000+ researchers across the institution
 - Established reliable data mining engine and **data processing** infrastructure, deployed on Microsoft Azure
 - Delivered usable front-end using Django framework for **data visualization** (t-SNE clustering, Intertopic Distance Map, Bubble chart), analysis & validation
 - The tool is used by researchers for annual mapping of ongoing **Sustainable Development Goals activity**, as well as author extraction for inter-disciplinary and cross-departmental collaboration evaluation
- **Data Scraping & Analytics Start-Up - Co-Founder** London, UK
LodusLabs May 2020 - Present
 - **Collaboratively developed** data mining infrastructure to gather current & historic video-game statistics for over **35,000** games and **20,000** game developers through time-triggered web-scrappers using Microsoft Azure Functions
 - Delivered a reliable **back-end structure** for data storage leveraging SQL Server, deployed on Digital Oceans' Droplet cronjobs
 - Currently in partnership with **Amazon's subsidiary - IGDB**
- **Robotics Process Automation - Intern** Baku, Azerbaijan
Baku Higher Oil School (University) October 2018 - November 2018
 - **Managed** a team of Undergraduate and Postgraduate students in the Process Automation Engineering Department to develop and **successfully pitch** viable automation of a daily task to the Head of the Department
- **Software Engineer - Intern** Baku, Azerbaijan
Nikoil Bank November 2017 - March 2018
 - **Redesigned** the national (Azerbaijani) credit registry of the Nikoil Bank in a fast-paced team of six developers
 - **Advanced** Java implementation of the monitoring system for the ATM's across the capital city of Baku

TECHNICAL SKILLS & LANGUAGES

- **Languages & Tools:** Python, C, Java, Haskell, Microsoft Azure, Django, MongoDB, Docker, Microsoft SQL Server, PostgreSQL, Git, Algorithms, Data Structures, HTML5/CSS, Quartus Prime
- **Russian:** (Native or Bilingual Proficiency), **English:** (Native or Bilingual Proficiency) **Azerbaijani:** (Elementary Proficiency)

PROJECTS

- **Java Shell (JSH)** 2021 (GitHub)
 - **Refactored** Java Shell implementation, leveraging Antlr to create an input parse tree
 - As part of **TDD** conducted the following: system acceptance, **99%** Jacoco branch coverage, JUnit, JumbleJ mutation tests
 - Developed pipe, sequence, call, input redirection, input substitution, as well as an unsafe version for each application
- **Computer Vision** 2020 (GitHub)
 - Implemented a depth map using a stereo-matching algorithm following the **dynamic programming** optimisation method
 - Integrated colour gradient to infer the relative distance to the object and its captured surroundings

ACCOMPLISHMENTS

- **Valedictorian** - Scored 1st for two consecutive years in the International Baccalaureate Diploma Programme, 2019
- **Mathematics Higher Level** - scored 7/7 in the IBDP final examination (**top 6.79%**), 2019
- **Co-founder** - of the TISA Entrepreneurial Club, **lead a team** to build and maintain a solar panel charging dock, 2017 - 2019

HOBBIES AND INTERESTS

- **Competitive Swimmer** - Swimmer for the junior **Olympic team** in Russia (2008 - 2012) and in Azerbaijan (2012 - 2017)
- **Scuba Diving** - Professional Association of Diving Instructors (PADI) certified scuba diver (2019 - Present)