

Albert Mukhametov

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PORTFOLIO

I am a **responsible** and **disciplined** individual, driven to pursue my interest through constant **self-education** and self-improvement, who can effectively **communicate** (including public speaking) and **collaborate** within a team.

EDUCATION

- **University College London (UCL)** London, UK
Bachelor of Science in Computer Science; Grade Expected: 1st 2019 - 2022
- **The International School of Azerbaijan** Baku, Azerbaijan
International Baccalaureate Diploma Programme (IBDP) 2017 - 2019
Grade Received: 40/45 (top 3.6 % out of 166,465 candidates worldwide)
- **University of Cambridge** Cambridge, UK
Computer Science Summer Programme: Cambridge Immerse June 2018 - July 2018
- **University of Oxford** Oxford, UK
Computer Science Summer Programme: Oxford Royale Academy June 2017 - July 2017

EXPERIENCE

- **Baku Higher Oil School (University)** Baku, Azerbaijan
Robotics Process Automation - Intern October 2018 - November 2018
 - **Collaborated** with Undergraduate and Postgraduate students in the Process Automation Engineering Department to develop and successfully **pitch** viable automaton of a daily task to the Head of the Department
- **Nikoil Bank** Baku, Azerbaijan
Software Development - Intern November 2017 - March 2018
 - Worked in a **team** of six developers to design the national (Azerbaijani) credit registry of the Nikoil Bank. Further work included fixing the Java implementation of the monitoring system for the ATM's across the capital city of Baku

TECHNICAL SKILLS

- **Languages & Tools:** Python, C, Java, Haskell, Microsoft Azure, MySQL, PostgreSQL, Git, Algorithms, Data Structures, HTML5/CSS, Quartus Prime
- **Russian:** (Native or Bilingual Proficiency) **English:** (Native or Bilingual Proficiency)

PROJECTS

- **Computer Vision 2020** (View Code)
 - Produced a depth map using a stereo-matching algorithm following the dynamic programming optimisation method
- **Auto-Players 2019 - 2020**
 - Tetris AI: Developed using a generic algorithm comprised of six heuristics, reaching 68,000 points (View Code)
 - TicTacToe AI: Implemented a Mini-Max algorithm with Alpha-Beta pruning, unbeatable by a human. (View Code)
- **Single-Cycle MIPS Processor 2019** (View Project)
 - Designed a fully functional 32-bit processor using logic and circuits
 - Built, tested and simulated the circuitry using Quartus Prime software

ACCOMPLISHMENTS

- **Valedictorian** - Scored 1st for two consecutive years in the International Baccalaureate Diploma Programme, 2019
- **Mathematics Higher Level** - Scored 7/7 in the final examination, only achieved by 11,319 out of 166,465 students, 2019
- **Co-founder** - of the TISA Entrepreneurial Club, 2017 - Present
- **President** - of the Russian (Charity) Club, in **collaboration** with Azerbaijan Red Crescent Society, 2016 - 2019
- **Category 2 Swimmer** - Junior Qualification, 2011 - Present

HOBBIES AND INTERESTS

- **Competitive Swimmer** - Swimmer for the Komi Republican **Olympic team** in Ukhta, Russia (2008 - 2012). Trained and competed for Baku Sharks amateur team in Baku, Azerbaijan (2012 - 2017)
- **Scuba Diving** - Professional Association of Diving Instructors (PADI) certified scuba diver with maximum allowed submersion depth of 12 meters (2019)
- **Airplane Modeling** - designed and built rockets with automatic **2-stage separation** using gunpowder-powered engine and automatic parachute deployment upon reaching designed altitude. Also built a **chord-model**, re-assembled, installed and maintained **single-piston petrol engine**.