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 (TISA)** — Baku, Azerbaijan
  International Baccalaureate Diploma Programme (IBDP); Grade Received: 40/45 (top 3.6%) — *2017 - 2019*

Experience

- **Co-Founder at LodusLabs** — London, UK
  Data Scraping & Analytics - Start-Up — *May 2020 - Present*
  - Performed cross-platform data scraping of the video-game industry
  - Worked with Microsoft Azure Functions & SQL Server to establish a reliable back-end structure for data storage and analysis
- **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 IBDP final examination (top 6.79%), 2019
- **Red Crescent of Azerbaijan Honours** - for humanitarian assistance, as member of the Russian (Charity) Club, 2016 - 2019
- **Co-founder** - of the TISA Entrepreneurial Club. Co-lead a team of enthusiastic minds to design, build and maintain a solar panel charging dock, 2017 - 2019

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 - Present)
- **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.**