

Nurpeiis Baimukan

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EDUCATION

NEW YORK UNIVERSITY

ABU DHABI

BS IN COMPUTER SCIENCE &
COMPUTER ENGINEERING

December 2021 | Abu Dhabi, UAE

GPA: 3.9 / 4.0

NAZARBAYEV INTELLECTUAL

SCHOOL OF ASTANA (NISA IB)

FIRST IN CLASS OF 92

July 2017 | Astana, Kazakhstan

GPA: 4.0 / 4.0; IB DP: 42/45;

SAT I: 1550/1600; SAT II: Physics

800/800, Chemistry 800/800, Math II

790/800; IELTS: 8.0/9.0

SKILLS

Advanced:

C++ • Python • Typescript

Intermediate:

Dart • Go • Java

Web & Mobile Development:

Flutter • Django • Docker • Figma •
Vue.js • PostgreSQL • SQLite • AWS •
Puppeteer

Data Science:

PyTorch • NLP • Speech Processing •
Kaldi • SoX • Scikit-learn • HPC

Others:

Arduino • Raspberry Pi • Telegram Bots

Leadership:

Public Speaking • Project Management •
Dialogue Facilitation

LANGUAGES

Native Languages:

Kazakh • Russian

COURSEWORK

Mathematical Modelling

Algorithmic Foundations of Data Science

Natural Language Processing (NLP)

Software Engineering

Computer Systems Organization

Advanced Digital Logic

Advanced Circuits

Data Structures

Algorithms

Object Oriented Programming (C++)

Probability & Statistics

Multivariable Calculus

Linear Algebra

Ordinary Differential Equations

Central Problems in Philosophy

INTERESTS & LEADERSHIP

- NYUAD's Computer Science Representative for 2020-21 AY
- Sustained Dialogue Facilitator: Facilitate dialogue for student body regarding crucial issues
- Saxophone: composed 6 original songs and over 10 covers with my band - 1AM
- Long distance running: run 60km weekly
- Table Tennis: captain of NYUAD's Intercollegiate Table Tennis Team and winner of ADISL 2019 championship

EXPERIENCE & PROJECTS

DAPI | SOFTWARE ENGINEERING INTERN

March 2020 - Present | Abu Dhabi, UAE

- Built automation software using Typescript that reduced bank integration from 3 days to 15 minutes and helped to raise investment
- Optimizing the back-end of all services using Go
- Built transaction categorization engine using Python, Scikit-Learn

CAMEL LAB | RESEARCH ASSISTANT

February 2020 - Present | Abu Dhabi, UAE

- Create the largest multi-dialect & multi-genre Arabic BERT Model using TPUs
- Improve state-of-the-art Arabic dialect identification using PyTorch

JAGGED (PREVIOUSLY IZBASAR) | Co-FOUNDER & CEO

July 2019 - Present | Abu Dhabi, UAE

- Won 2nd place (\$10,000) at NYU's Innovention competition among 7 teams
- Won StartAD's National Impact Award (\$10,000), competitive Spring Incubator Program 2020 among 17 teams
- Developing a prototype of Mobile App to expand the project internationally using Flutter and Figma
- Founded a **mentorship program** for high school students, connecting over 100 bright high schoolers with college students
- Coordinated with 40 college students all over the world to develop fair application review criteria, mentor training program and weekly schedule
- Developed podcast series on self-development, college application process, and college life, ranking Top 5 in itunes educational podcasts in Kazakhstan
- Helped mentees in the program achieve over \$2 million in scholarships.

BTS DIGITAL | MACHINE LEARNING & SWE INTERN

October 2019 - January 2020 | Astana, Kazakhstan

- Built English learning platform for Kazakh & Russian speaking audience using Image Captioning, S2T, and Sentence Encoder models & PyTorch to assess speech and written fluency
- Used Docker, AWS & Telegram Bot to test the MVP with over 2000 users
- Built cheap and fast Kazakh language audio-text forced alignment tool using Kaldi, SoX and Fourier Analysis Techniques
- Created over 30 hours of clean Kazakh language Speech2Text dataset

GOOGLE | RESEARCH INTERN

Fall 2019 | New York, USA

- Google Assistant offer rescinded due to visa issues

NYU CENTER FOR CYBERSECURITY | RESEARCHER

June 2019 - August 2019 | New York, USA

- Designed **Steganographic System** that uses Generative Adversarial Nets (LeakGAN) & RNNs to tackle targeted ads & censorship on textual data
- Book chapter in **Game Theory and Machine Learning for Cyber Security**
- Implemented **LeakGAN** using Pytorch and HPC

NYUAD COLAB | FULL STACK DEVELOPER

September 2018 - September 2019 | Abu Dhabi, UAE

- Created and maintained a Web Application to improve interaction between the external community and NYUAD
- **Back-End:** Managed REST APIs and models in PostgreSQL using Django
- **Front-End:** Developed user interface with Vue.js, HTML, CSS, Bootstrap.

CYBER# | Co-PRESIDENT & CTF TEAM MEMBER

October 2018 - September 2019 | Abu Dhabi, UAE

- Led a team of 8 students working on self-driving "Donkey car" using Keras
- Led first-ever NYUAD's Capture the Flag (CTF) team, being responsible for Cryptography and Web Exploitation using Kali-Linux
- Won 1st place in CTF organized by OPCDE, Dubai, 2019
- Won 3rd place in CTF organized by Hack In The Box (HITB), Dubai, 2018

OTHER PROJECTS

September 2018 - Present | Abu Dhabi, UAE

- **Hukamaa:** Came up with an idea of a **Platform** to engage the elderly to realize their full capacity in today's society. Built front-end using Vue.js. **Won 2nd** place among 11 teams at NYUAD's International Hackathon
- **Checkers-AI: Checkers game** in C++ using MiniMax and Alpha-Beta Pruning