

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;

SKILLS

Advanced:

C++ • Python • Typescript

Intermediate:

Dart • Go • Java • MATLAB

Web & Mobile Development:

Puppeteer • Electron Flutter • Django •

React • Docker • Figma • PostgreSQL •

SQLite • AWS

Data Science:

PyTorch • NLP • Speech Processing •

Kaldi • SoX • Scikit-learn • HPC

Others:

Arduino • Raspberry Pi • Telegram Bots

Leadership:

Public Speaking • Project Management •

Dialogue Facilitation

Native Languages:

Kazakh • Russian

COURSEWORK

- Machine Learning for Language Understanding
- University Leadership Honors Course
- Mathematical Modelling
- Algorithmic Foundations of ML & DS
- Natural Language Processing (NLP)
- Operating Systems
- Computer Networks
- Signals & Systems
- 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 80km weekly
- Table Tennis: captain of NYUAD's Intercollegiate Table Tennis Team and winner of ADISL 2019 championship

EXPERIENCE & PROJECTS

DAPI | SOFTWARE ENGINEER & PRODUCT MANAGER

March 2020 - Present | Abu Dhabi, UAE

- Optimize Bank Integration Process and create a new pipeline, closely collaborating with business team
- Manage Integration team of 10 people and build a standardized and transparent hiring process
- Represent Engineering team during investor pitches
- Built automation software that reduced bank integration time
- Built transaction categorization engine using Python, Scikit-Learn

CAMEL LAB | RESEARCH ASSISTANT

February 2020 - Present | Abu Dhabi, UAE

- Improve state-of-the-art Arabic dialect identification using PyTorch
- Create and standardize large dialectal Arabic Dataset

JAGGED | Co-FOUNDER & CEO

July 2019 - Present | Abu Dhabi, UAE

- Founded a **mentorship program** for high school students
- Developing a prototype of Mobile App to expand the project internationally using Flutter, Java Spring Boot and Figma
- Developing **web-app** using React
- Coordinated with 40 college students all over the world to develop fair application review criteria, mentor training program and weekly schedule
- Won 2nd place (\$10,000) at NYU's Innovention competition among 7 teams and StartAD's National Impact Award (\$10,000), competitive Spring Incubator Program 2020 among 17 teams
- 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 to create over 30 hours of clean Kazakh language Speech2Text dataset

GOOGLE | RESEARCH INTERN

Fall 2019 | New York, USA

- Google Assistant offer in Manaal Faruqui's team 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 using Django, PostgreSQL Javascript

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 and Won 1st place in CTF organized by OPCDE, Dubai, 2019 and 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. 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