NURGAZY SEIDALIEV

✉ nks369@nyu.edu   ⌂ @nursei7   ☎ +971565883205

EDUCATION

New York University Abu Dhabi (NYU AD)   UAE
Bachelor of Science in Computer Science   *Aug 2018 – May 2022*

- Cumulative GPA (CGPA): 3.59/4.0, Full-Ride Scholarship
- Database Systems, Computer Networks, Communications Lab, Data Structures, Algorithms, Computational Social Science, Projects in Data Science, Computer Systems Organization, Language of Computers

PROJECTS & COURSEWORK

Personal Website   *Jul 2020*

- Built a website to host my web projects for Communications Lab class where I explored new ways of expressing myself through the means of web technologies and storytelling. From this experience, I have learnt to incorporate CSS, HTML and JavaScript together to develop creative websites.

HackNYUAD   UAE
Project for Annual Student-Hosted Hackathon HackNYUAD   *Oct 2018*

- Achieved an absolute third place with a food delivery app, based on various restaurant APIs, for students on campus with a discounted group ordering feature. It was a great experience working in a team and building software. [Python, Django]

Computer Networks   Grade: A

- Implemented Transmission Control Protocol (TCP) in C language.

  I greatly increased my grasp of network concepts, OSI model, and file transmission process in each of the network layers while building the program. For the project, I implemented congestion control mechanisms to guarantee high transmission rate and optimised sender window size and acknowledgement handling.

Computer Systems Organization   Grade: A-

- Created a plagiarism detector program using Rabin-Karp string hashing algorithm.

  I significantly improved my proficiency in C as well as understanding of computer memory. For the project, I have optimized memory efficiency by using Bloom filters and sped up the program by implementing bit manipulation.

Machine Learning Models   *Aug – Oct 2020*

- Taught myself foundations of Machine Learning by studying and implementing from scratch, without using existing implementations in third-party libraries, different ML models such as Logistic Regression, Support Vector Machine (SVM) classifier, and Linear Regression.

  Lately, I became interested in ML, so I am working on improving at it in addition to web development.

  First, I learned and used Logistic Regression for breast cancer diagnosing app, which I trained on a public dataset, to a 95.8% accuracy rate. Then, I got familiar with Linear Algebra for ML and SVM and trained at them by implementing a program for sorting some data points into two groups through finding a hard margin hyperplane. Lastly, I implemented a classic house price predictor using Linear Regression. [Python, NumPy, Sklearn, Matplotlib, Pandas]

EXTRA ACTIVITIES

Competitive Programming Club   Kyrgyzstan
American University of Central Asia   *Sep 2017 – Apr 2018*

- Qualified to the semifinal stage of ACM ICPC from the Kyrgyzstan Regional and received honorable mention on the semifinal.

  While competing in ICPC and being member of the club, I learned and practiced many different aspects of working in and as a team – division of roles in the team, dedication of certain programming topics for intensive prep by each team member, developing strategy for the contest, and effective communication in the team. Competed mainly using C++.

  ACM ICPC is the most prestigious annual competitive programming competition among teams of students from universities around the world.