

# DILNAZ AMANZHLOVA

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## SKILLS

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- **Languages:** C/C++, PHP, JavaScript
- **Other technical skills:** HTML/CSS, SQL, Laravel, AJAX, Wordpress, Git, Firebase

## EDUCATION

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**Nazarbayev University** • Nur-Sultan, Kazakhstan  
*Bachelor of Science • Computer Science*

August 2019 – June 2023

- Relevant coursework: Performance and Data Structures, Programming for Scientists and Engineers
- Cumulative GPA: 3.63/4.0

## PROJECTS

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**School Act System** | Website/Android app

September 2018 – March 2019

*HTML/CSS, PHP, JavaScript, AJAX, jQuery, Java, Android Studio*

- Built website which keeps track of student offense cases' documentation in a school's online database server used by more than 120 teachers
- Implemented AJAX technology and jQuery for extracting the exact data and uploading several queries simultaneously to the school database
- Implemented a feature that generates PDF document, according to the filled data about the student and the type of the offense, to download and print if needed
- Developed mobile version on Android, using local Firebase Realtime Database to store the data, so that it can store data offline and upload to the online database when having the internet connection asynchronous.

**ZVOOK** | Android app

May 2018 – June 2018

*Java, Android Studio*

- Built an Android app using Java which helps people with hearing impairment to avoid dangerous situations, like a fire alarm or dog barking, by "hearing" the sounds and warning the person with the help of vibrations and flashlights
- Implemented complex mathematical transform which returns a frequency of sound instead of its sound function. The app listens for all sounds asynchronous and traces similar sound pattern as in dangerous situations
- Utilized Firebase Realtime Database to store the history of a potentially dangerous situation to test the system and improve further
- Became the finalist on Technovation, an international competition for girls aged under 18 to solve a social problem in their hometown, along with 20 teams from 100 teams around the country.

**Maze Generator** | Website

July 2020

*HTML, CSS, JavaScript*

- Built a website using p5.js JavaScript library to create and demonstrate 3 maze generation algorithms
- Utilized graph-based methods - depth-first search with recursive backtracking - to create maze pattern based on the random tree traversal
- Implemented a modified randomized version of Prim's and Kruskal's algorithms for minimum spanning tree

## EXTRACURRICULAR ACTIVITIES

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**Special Interest Groups Manager** – ACM Student Chapter  
Astana, Kazakhstan

January 2020 – June 2020

- Supervised 5 groups of students with special interests in ICPC, WebDev, MobileDev, GameDev and Cyber Security
- Helped students with questions, or direct them to the correct personnel
- So far scheduled 20+ group sessions, and arranged 3 guest talks

## INTERESTS

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- Member of ACM-Woman Student Chapter
- Solved more than 300 competitive programming problems with the help of different algorithms and data structures
- ACM ICPC Northern Eurasia Regional Contest - 5th place out of 110+ teams