

## EDUCATION

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- **Nazarbayev University** Astana, Kazakhstan  
*Bachelor in Computer Science - Full Scholarship - CGPA: 3.49 - TOP 15* Aug 2023 - June 2027
  - **Relevant courses:** Programming for Scientists and Engineers, Performance and Data Structures, Programming Languages, Computer Systems and Organization, Formal Languages, Algorithms, Database Systems, Artificial Intelligence, Software Engineering

## TECHNICAL SKILLS

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- **Technologies:**  
*React, FastAPI, PostgreSQL, C++, C, Python, JavaScript, Java, Prolog, PHP, HTML, CSS, MySQL, SQLite, Django*

## EXPERIENCE

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- **HRI Lab at Nazarbayev University** Astana, Kazakhstan  
*Research Assistant – Social Robotics Projects (April Lab)* August 2025 – Present
  - Responsible for backend development of the **April Robot Project**, focusing on scalable system design for inclusive robotics
  - Lead branding and outreach efforts for April Lab's projects, ensuring consistent identity and public engagement
- **NU ACM Student Chapter** Astana, Kazakhstan  
*Vice Chair – ACM-W Student Chapter* April 2025 – Present
  - Coordinate and manage a team of 45+ student volunteers to organize large-scale tech events and competitions
  - Oversaw events with prize pools of **2–3 million KZT**, attracting national-level participation
  - Built collaborations with leading companies including **Bloomberg, Google, Beeline, EPAM, Khan Academy**
  - Previously served as Public Relations Manager, creating engaging content and managing ACM's social media presence (Feb – Apr 2025)
- **nFactorial Incubator** June 2025 – August 2025  
*Full-Stack Development Trainee (Grant Recipient – top 80 out of 2000+ applicants)*
  - Selected with a fully funded grant among 2000+ students to develop a startup project within the incubator
  - Designed and launched **LazyJumys.com**, the **first AI-powered job search platform** aggregating vacancies directly from Telegram channels
  - Built a complex backend with **FastAPI, PostgreSQL, Redis, Telethon**, and containerized deployment via Docker and Nginx; frontend in React + Vite
  - Achieved rapid traction: **3500+ active users in 3 weeks**, Top 25 projects out of 80 in the incubator demo day
  - Drew interest from 3 potential investors and received 1 job offer based on the project
- **Novators LLP – Cozmo Camp** June 2025 – August 2025  
*Software Development Intern*
  - Helped design and implement **Cozmo Camp** - a robotics and coding curriculum for children aged 6–10
  - Delivered lessons integrating Python and robot control using Cozmo SDK; already being used in practice

## PROJECTS

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- **Voice Chat with AI** June 2025  
*[github.com/dananaoo/v2v](https://github.com/dananaoo/v2v)*
  - Built a real-time **voice-to-voice chat application** enabling conversational interaction with AI
  - Used WebSocket for low-latency communication between client and server
  - Integrated Gemini AI for dynamic and context-aware speech responses
  - Provided seamless audio streaming with speech-to-text and text-to-speech conversion
  - **Tech Stack:** Python, WebSocket, Gemini AI, Whisper, Text-to-Speech
- **GenTok – AI-Powered TikTok Content Generator** June 2025  
*[github.com/dananaoo/GenTok](https://github.com/dananaoo/GenTok)*
  - Developed a CRUD-style web application with a list-based UI design for content management

- Integrated an AI chatbot to generate creative ideas for TikTok videos
- Implemented task queuing with **Celery** and caching with **Redis**
- Built backend with FastAPI and designed modular project structure for scalability
- **Tech Stack:** FastAPI, Celery, Redis, PostgreSQL, React

- **Agent-to-Agent (A2A) Communication Demo**

[github.com/dananaoo/A2A](https://github.com/dananaoo/A2A)

June 2025

- Implemented a proof-of-concept system for communication between two agents built on different frameworks
- Agent 1 developed with **FastAPI (Python)**, Agent 2 developed with **Express.js (Node.js)**
- Designed REST endpoints enabling seamless message exchange between the agents
- Created documentation and project structure for reproducibility and scalability
- **Tech Stack:** Python, FastAPI, Node.js, Express.js

- **Learnmate**

[github.com/dananaoo/learnmate](https://github.com/dananaoo/learnmate)

August 2024

- Developed a collaborative learning web application using Django and SQLite, featuring user authentication
- Created a dynamic home page with searchable discussion rooms and real-time messaging
- Implemented a Room feature for users to create, update, and delete discussion spaces with participant tracking
- Ensured role-based access control for room management and message deletion
- **Tech Stack:** Python, Django, SQLite

- **Recipes for dishes**

[github.com/dananaoo/FoodWebsite](https://github.com/dananaoo/FoodWebsite)

March 2022

- Developed a website for searching recipes by ingredients
- Sessions were used to create and use accounts
- Added a database to store data about meals, users and their favourite recipes
- Answers are sorted by using Bubble sorting
- **Tech Stack:** HTML, CSS, JavaScript, PHP, MySQL

## HONORS AND ACHIEVEMENTS

- **Presidential Stipend** Kazakhstan  
*Awarded for outstanding academic performance (one semester)* *February - July 2025*
- **CodeW – Competitive Programming Contest** Astana, Kazakhstan  
*Individual contest for Kazakhstani female students and high schoolers, hosted by Nazarbayev University* *March 2025*
  - Won **2nd place** in the Intermediate Level category; awarded **70,000 KZT** and official merchandise
- **Women's Hack Day** Astana, Kazakhstan  
*3-round hackathon organized by NU ACM-Women Student Chapter* *January 2025*
  - Competed in a three-round team challenge including mathematics, programming, and project design
  - Ranked in the **top 4 out of 30** participating teams
- **Enactus – Republican Championship of School Entrepreneurship** Astana, Kazakhstan  
*National-level entrepreneurship competition* *May 2022*
  - Developed an online platform, "**Agromap**", to help farmers find optimal conditions for sowing crops
  - Placed **top 3 out of 50 teams** in the competition