SYMBAT BEKZHIGIT

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EDUCATION

New York University Abu Dhabi (NYUAD), Abu Dhabi, UAE and New York, NY — *Aug 2021 - May 2025*
B.S. in Computer Science, minors in Applied Mathematics, Interactive Media — **GPA: 3.85/4.00**
Relevant Coursework: Software Engineering, Operating Systems, Computer Systems Organization, Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Software Art

New York University, New York, NY — *Aug 2023 - Dec 2023*
Relevant Coursework: Data Management and Analysis, Human-Computer Interaction

SKILLS

Programming Languages	Python, C++, C, Dart, HTML5, CSS3, JavaScript, SQL, Java
Tools & Technologies	Git, Flutter, PostgreSQL, JIRA, Jupyter, Processing3, OpenFrameworks, MongoDB

EXPERIENCE

Software Engineer Intern — *Jun 2024 - present*
imagiLabs AB — Stockholm, Sweden
- Updating internal logic and UI features of the imagi Edu Platform deployed on **Flutter** using **Agile** methodology
- Developing a new feature that allows users to download images, gifs, and video previews of a project

Machine Learning Intern — *May 2023 - Aug 2023*
Modern Microprocessors Architecture Lab, NYU — Abu Dhabi, UAE
- Approximated ReLU activations on custom Convolutional Neural Networks (CNNs) with low-degree polynomials, reaching an average relative accuracy of **96%**
- Trained and evaluated **16+** custom and pre-built CNNs, including LeNet-5, ResNet-18, and VGG-16, using **PyTorch**
- Conducted research on *Polynomial Approximation of Machine Learning Models* and prepared comprehensive report

Coding Teacher — *Aug 2023*
HLAB Summer School — Ehime, Japan
- Taught **20+** Japanese high school students with no programming experience the basics of **JavaScript** and **p5.js**
- Designed a syllabus from scratch and organized seminars with live coding, team projects, and hands-on coding exercises

PROJECTS

Calculator Application — *Flutter, Dart, Material Design*
- Developed a calculator application using **Flutter**, focusing on providing basic arithmetic operations and error handling
- Designed a user-friendly and visually appealing user interface incorporating **Material Design** frameworks

VR Gloves HandVenture — *C++, JavaScript, Arduino, p5.js*, CSS
- Developed gloves enabling virtual exploration of Kazakhstan via hand gestures, using **JavaScript** and **C++**
- Integrated **Arduino** with **p5.js** to create an interactive virtual experience, showcased at Interactive Media Showcase

Ghostly Pong Online Game — *JavaScript, p5.js, CSS, HTML, Object-Oriented Programming (OOP)*
- Built from scratch a unique modification of a Ping Pong game that uses dual disks with periodic disappearing dynamics on **p5.js** using **JavaScript, CSS, HTML**
- Implemented a modular design utilizing **OOP** with different classes for game objects and a multistage structure

LEADERSHIP

President — *Aug 2022 - Jun 2023*
HackAD, Computer Science focused Student Interest Group at NYUAD — Abu Dhabi, UAE
- Initiated **20+** tech events across campus gathering **800+** participants and increasing membership by **40%**
- Redesigned the website and updated its functionalities using **HTML5, CSS3, JavaScript** and **Bootstrap 5**

AWARDS

Cybersecurity Games and Conference, CSAW'22 – Finalist, **top 4** among **20+** teams applied
Republican Scientific Projects Competition Gold Medalist – **Top 1** among **100+** projects
Kazakhstan Robotics Challenge Silver Medalist – **2nd** place out of **50** teams selected (**100+** applied)