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# Vladimir Sharkovski

NYU Abu Dhabi, Saadiyat Island,  
Abu Dhabi, UAE

## Education

### New York University in Abu Dhabi

BSc in Computer Science • Minor in Applied Mathematics • GPA: 3.94/4.0

August 2021 - May 2025 • Abu Dhabi, UAE

## Work Experience And Projects

### NYU Abu Dhabi: Capstone Project in Computer Science (ThorJS)

June 2024 - December 2024 • Abu Dhabi, UAE

- Implemented a C++ optimization for Chromium web browsers, reducing average website load times by up to 27%
- Analyzed 1 million websites, finding that 50% of websites support the optimization
- Used WebPageTest, Chrome DevTools, and Python to evaluate detailed performance on 12 websites

### Netcetera: Software Engineer Intern

July 2023 - August 2023 • Skopje, North Macedonia

- Developed a tool (API) to help patients fill forms using Google Cloud Speech To Text and GPT-4
- Used manual, automated testing and prompt engineering to improve precision, consistency of tool
- Created Spring library to help developers write SQL and JPQL queries in existing projects with minimal configuration

### NYU Abu Dhabi: Web Developer & Research Assistant

October 2022 - June 2023 • Abu Dhabi, UAE

- Built and deployed 2 web apps for data exploration and analysis of a large (4 GB) research dataset
- Designed and implemented intuitive web interfaces in Angular, for non-technical users
- Developed an API for efficient dynamic SQL queries using Spring Data JPA and multithreading
- Website link: [bhht.abudhabi.nyu.edu](http://bhht.abudhabi.nyu.edu)

### Sorsix: Web Development Intern

June 2022 - August 2022 • Skopje, North Macedonia

- Worked in a team to develop a full-stack social network web app using Spring, PostgreSQL, and Angular
- Coordinated and prioritized plans with project manager through daily meetings

## Personal Projects

- Medicine Helper (*Soft. Eng.*) Assistant that helps patients by suggesting medicines using a real drug database and LLM
- MyFoto (*Databases*) Photo album sharing website with smart photo and friend recommendations
- ADZip (*Operating Systems*) Low-level utility for creating and managing portable file archives
- TCP (*Computer Networks*) Simplified TCP implementation with reliable data transfer and congestion control
- K-Lox Kotlin implementation of the Lox programming language from *Crafting Interpreters*
- Quiz App Trivia quiz app for Android, generates quizzes with the *Open Trivia Database API*

## Technical Skills

- Experience with Java, Kotlin, C, C++, Python, JavaScript
- Back-end web development, microservices with Spring
- Front-end web development with Angular
- Databases: SQL (PostgreSQL), NoSQL (MongoDB)
- CI/CD workflows, deployment to Linux machines, Docker
- Relevant Classwork: Big Data Systems, Parallel Computing, Operating Systems, Computer Networks, Data Structures, Algorithms, Databases, Natural Language Processing

## Awards / Honors

IEEEExtreme: Top 100 worldwide

Macedonian Olympiad in Informatics: Silver Medal

National Mathematics Competition: First Prize

October 2022 • Abu Dhabi, UAE

April 2019 • Skopje, North Macedonia

March 2019 • Skopje, North Macedonia

## Leadership

School of the Future: Volunteer teacher

October 2018 - December 2018 • Skopje, North Macedonia

- Coached C++ and competitive programming concepts to ten middle and high school students
- Prepared students for national computer science Olympiads

## Languages

- Native Proficiency: Macedonian, English
- Conversational: Serbian, Croatian, Bosnian, Bulgarian