Themis Haris
Computer Science student

✉ HB 1213, Hanover, NH, 03755

📞 +1 (603) 266-8196

🌐 www.linkedin.com/in/tkhar

@ themisharis@gmail.com

⬡ Github Page

Languages ━━━━━

🇬🇧 English ● ● ● ● ●
🇬🇷 Greek ● ● ● ● ●
🇫🇷 French ● ● ● ○ ○

Education ━━━━━

Dartmouth College, AB, 2017-2021

📘 Computer Science, Mathematics

🎓 GPA: 3.92/4.00

Coursework ━━━━━

- Algorithms and Data Structures
- Theory of Computation
- Machine Learning, Deep Learning
- Android Programming
- Computer Architecture
- Compilers
- Database Systems
- GPU Programming
- Computer Graphics
- Probability and Statistics
- Differential Equations
- Linear Algebra

Technical Skills ━━━

💻 C, C++, Java, Python

>_ Git, Bash, MS-DOS

🛢 MySQL, MongoDB, NodeJS

📊 R, PyTorch

🎮 OpenGL, GLSL, C#, Unity

Working Experience

2020	**Microsoft Software Engineering Intern**	MS-DOS, C++

Developed a modernized testing framework for the Windows Operating System Kernel, which improved testing deployment and coverage across multiple components of the OS.

2019 – 2020	**Presidential Scholar**	Discrete Math, Information Theory, Probability

Proposed and proved a lower bound property regarding the cost difference of two communication models in the Direct Sum case.

2019	**Undergraduate Researcher**	C#, Unity 5, Blender

Designed and constructed a Mixed Reality sign language teaching application which uses gloves with computational fibers to provide a real-time learning experience.

Project Experience

2020	**MyVirtualTour**	JavaScript, NodeJS, Azure AI SDK

Produced, as part of a Hackathon team, a virtual learning tool which uses visual sentiment analysis software to deduce the focus of a student and make appropriate teaching recommendations.

2020	**GPU Fluid Simulator**	CUDA C++, OpenGL, GLSL

Created a parallelized GPU simulator of fluid particle motion using the Smooth-Particle Hydrodynamics paradigm.

2020	**COVID-19 Hospital Inventory Database**	MySQL, NodeJS, React

Planned and implemented, within a group of 4, an online database system for medical inventory purposes during the pandemic.

2020	**Sequential CPU**	Assembly, LogiSim, C

Constructed a sequential y86 CPU, which included an ALU, a Register File, an I/O connection, a complete Microinstruction FSM, an Exception Handling Mechanism, an OS Trap mechanism and support for Privileged code.

2019	**miniC Compiler**	C,C++, LLVM, Flex, Bison, Assembly

Made a fully functional compiler for a simplified subset of the C language on the y86 architecture. The compiler consists of a lexical analyzer, a parser, an LLVM generator and various local and global compiler optimizations.

2019	**NoChances**	Java, Android SDK, SQLite

Built, in a group of 2, an Android App which helps people avoid one another, as an antithesis to dating apps, whose purpose is to bring people closer

Leadership

2019 – 2020	**Residential Undergraduate Advisor**	Dartmouth College

Lived in a First-Year Community, with a responsibility to promote health and wellness among 20 residents.

2019 – 2020	**CoderDojo**	Dartmouth College

Volunteered to teach Programming and Computer Science concepts in schools located in the Upper Valley, New Hampshire

2019 – 2020	**International Student Association**	Dartmouth College

Acted as wellness chair and focused on pinpointing and addressing issues concerning the mental and physical wellbeing of international students at Dartmouth.

2018 – 2020	**Teaching Assistant, Tutor**	Dartmouth College

Provided academic support to students in 9 different courses.

2019	**Management and Leadership Development Program**	

Attended organized lectures on communication techniques, negotiation strategies and interpersonal style adaptability

Awards

2020	Town Prize	Dartmouth College
2020	11 Citations for Academic Excellence	Dartmouth College
2020	James O. Freedman Presidential Scholar	Dartmouth College
2017	6th place in Greek National Mathematics Olympiad	