



GIL KEIDAR

B.S. COMPUTER SCIENCE
(4TH YEAR)
3.989 GPA

PROFILE

Enthusiastic problem solver, creative programmer, hard worker, and fast learner. Enjoys designing and implementing algorithms.

CONTACT

keidar.gil@gmail.com

<https://gil-keidar.netlify.app/>

LinkedIn:

<https://www.linkedin.com/in/gil-keidar/>

GitHub:

<https://github.com/gilkeidar>

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San Diego, California, 92130

HOBBIES AND INTERESTS

- Apple II Programming
- Classical music composition
- Piano performance
- Tai Chi Chuan
- Hiking and traveling in nature

PROJECT

BYTEFROST (Homebrew 8-BIT BREADBOARD CPU)

Designed and built CPU and computer using discrete logic gates and integrated circuits on breadboards. Wrote an assembler in C. Designed an instruction set and assembly language from scratch. Developed display driver card using Arduino Nano. Programs I wrote for it: Eight Queens Problem (all solutions) in 5 seconds; Binary Search Tree recursive insert and traversal using hardware stack.

GitHub: <https://github.com/gilkeidar/ByteFrost>

YouTube: <https://www.youtube.com/@bytefrost>

KURAMA (Application-Specific 9-BIT FPGA CPU)

Designed and implemented a 9-bit (9-bit ISA, 8-bit data word) CPU using SystemVerilog. Optimized CPU for three specific programs (includes non-general instructions for this purpose). Architecture is unique to address 9-bit instruction word restriction. Wrote an assembler in Java. Designed 9-bit ISA from scratch. (Project code available upon request; not public since it's a university course project)

EXPERIENCE

INTERNSHIP AT [CYBER@BGU](#)

FEBRUARY 2020 – JUNE 2020

- Used MediaWiki's API and graphing libraries with JavaScript to create a graph-based navigation tool, and augmented the default search engine to include tags using the MVC design pattern and jQuery

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

UNIVERSITY OF CALIFORNIA, SAN DIEGO

EXPECTED GRADUATION IN MARCH 2025

PROVOST HONORS IN 6 QUARTERS

KEY SKILLS AND CHARACTERISTICS

- Proficient in programming in C, C++, and Java
- Familiar with ARM assembly, Python, SystemVerilog, C#, JS
- 3.989 GPA
- A+ in *Design and Analysis of Algorithms*, *Theory of Computability*, and *Introduction to Computer Architecture*

General Information

Student: Keidar, Gil
PID: A16122745
Student Level: UN
College: Earl Warren College
Major: Computer Science
Intended Degree: Bachelor of Science

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Academic History

Academic Events

Event	Date
UC ENTRLVL WRITNG REQT SATISFD	09/10/2020
AMER HIST& INST REQT SATISFIED	12/11/2020

UCSD Undergraduate Courses by Subject

Term	Subject	Course	Course Title	Units	Grade	Repeat
FA20	CSE	11	Accel. Intro to Programming	4.00	A+	
WI21	CSE	12	Basic Data Struct & OO Design	4.00	A+	
WI21	CSE	15L	Software Tools&Techniques Lab	2.00	A+	
WI21	CSE	20	Discrete Mathematics	4.00	A	
SP21	CSE	21	Math/Algorithm&Systems Analys	4.00	A+	
SP21	CSE	30	Computer Organiz&Systms Progm	4.00	A+	
FA21	CSE	100	Advanced Data Structures	4.00	A+	
S223	CSE	101	Design & Analysis of Algorithm	4.00	A+	
FA22	CSE	103	Practical Intro/Prob & Stats	4.00	A+	
SP22	CSE	105	Theory of Computation	4.00	A+	
SP23	CSE	110	Software Engineering	4.00	A	
FA23	CSE	120	Princ/Computer Operating System	4.00		
WI23	CSE	130	Progrmng Lang:Princpl&Paradigm	4.00	A+	
S123	CSE	134B	Web Client Languages	4.00	A+	
WI22	CSE	140	Component&Desgn Tech/Digtl Sys	4.00	A+	
WI22	CSE	140L	Digital Systems Laboratory	2.00	A	
WI23	CSE	141	Intro/Computer Architecture	4.00	A+	
WI23	CSE	141L	Project/Computer Architecture	2.00	A	
SP22	ECE	15	Engineering Computation	4.00	A+	
FA21	JAPN	10A	First Year Japanese I	5.00	A	
WI22	JAPN	10B	First Year Japanese II	5.00	P	
FA22	LIGN	5	Linguistics of Invented Lang	4.00	A+	
FA22	LIGN	7	Sign Languages&Their Cultures	4.00	A+	
WI23	LIGN	101	Introduction/Study of Language	4.00	P	
S121	MATH	18	Linear Algebra	4.00	A+	
FA20	MATH	20C	Calculus&Analyt Geom/Sci&Engr	4.00	A	TC
FA21	MUS	9	Symphony	4.00	A+	
WI21	MUS	12	Opera	4.00	A+	
FA23	MUS	171	Computer Music I	4.00		
WI22	PHYS	2A	Physics-Mechanics	4.00	A+	
SP22	PHYS	2B	Phys-Electricity and Magnetism	4.00	A+	
S122	POLI	27	Ethics And Society I	4.00	A	
FA20	WCWP	10A	The Writing Course A	4.00	A	
SP21	WCWP	10B	The Writing Course B	4.00	A-	

Cumulative Summary

Grade Option	UC-Crdts Attm	Crdts Pssd	UC-GPA Crdts	UC-Grade Points	UC-GPA
Letter	115.00	117.00	111.00	442.80	3.989
P/NP	9.00	33.00	0.00	0.00	0.000
TOTAL	124.00	150.00	111.00	442.80	3.989

Total Upper Division Units: 44.00

Excludes work in progress.