GIL KEIDAR

B.S. COMPUTER SCIENCE
3.991 GPA

PROFILE
Enthusiastic problem solver, creative programmer, hard worker, and fast learner.

LANGUAGES
Fluent in English and Hebrew

CONTACT
keidar.gil@gmail.com

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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 – YOUTUBE
Designed and built CPU and computer using discrete logic gates and integrated circuits on breadboards. Wrote an assembler in C and 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. 64K address space. GitHub: https://github.com/gilkeidar/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)

WRATH OF ZEUS – 3D LAN Multiplayer Video Game – DEMO
Developed as part of a group of 7 in the course CSE 125 over 10 weeks. Worked on architecture of game engine. Implemented the game engine's Object Manager, game phases, maze map representation, and optimized collision detection to O(n). Implemented lobby system logic and UI.

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 JUNE 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
- 3.991 GPA
- A+ in Design and Analysis of Algorithms, Theory of Computability, Introduction to Computer Architecture, Computer Networks, Principles of Computer Operating Systems, and Introduction to Computer Security

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 Progrm ⓘ	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 Systm ⓘ	4.00	A+ ⓘ	
FA24	CSE	123 ⓘ	Computer Networks ⓘ	4.00	A+ ⓘ	
WI24	CSE	123 ⓘ	Computer Networks ⓘ	4.00	W ⓘ	
SP24	CSE	125 ⓘ	Software Sys Design & Implemnt ⓘ	4.00	A ⓘ	
FA24	CSE	127 ⓘ	Intro to Computer Security ⓘ	4.00	A+ ⓘ	
SP24	CSE	127 ⓘ	Intro to Computer Security ⓘ	4.00	W ⓘ	
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 ⓘ	
WI24	CSE	160 ⓘ	Intro to Parallel Computing ⓘ	4.00	A+ ⓘ	
WI25	CSE	167 ⓘ	Computer Graphics ⓘ	4.00		
SP22	ECE	15 ⓘ	Engineering Computation ⓘ	4.00	A+ ⓘ	
WI25	ECE	141A ⓘ	Software Foundations I ⓘ	4.00		
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 ⓘ	
S124	LIGN	120 ⓘ	Morphology ⓘ	4.00	P ⓘ	
WI24	LIGN	121 ⓘ	Syntax I ⓘ	4.00	A+ ⓘ	
S121	MATH	18 ⓘ	Linear Algebra ⓘ	4.00	A+ ⓘ	
FA20	MATH	20C ⓘ	Calculus&Analyt Geom/Sci&Engnr ⓘ	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	A+ ⓘ	
SP24	MUS	172 ⓘ	Computer Music II ⓘ	4.00	P ⓘ	
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	151.00	145.00	139.00	554.80	3.991
P/NP	17.00	41.00	0.00	0.00	0.000
TOTAL	168.00	186.00	139.00	554.80	3.991