Boris Alguliev

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education	University of California, Berkeley				June 2018 — May 2020		
	B.S., Electrical Engi	B.S., Electrical Engineering & Computer Sciences					
	City College of Sar	City College of San Francisco				August 2016 — May 2018	
	A.S., Math, Physics	, and Compute	r Science				
proficiencies	Java ●●●	C ●●●	Python ●●○	Go ●●○	SQL ●●○	Swift ●○○	
projects	Mobile App (<i>Link</i>) — Dart, Flutter: An original design using Google's cross-platform UI toolkit–a mobile version of the Yi Jing, a three-millennia old text. Allows for interactive consultations, saving, and annotating readings.						
	Custom Keyboard — C: Combined hardware and software to make my ideal keyboard. Custom firmware with macros and layers on a custom layout focused on increasing productivity. Uses open-source QMK firmware.						
	•	Physic Simulations (<i>Link</i>) — Python: Interactive visual physics simulations hosted on glowscript.org to help teach physics concepts such as phasor analysis and ray tracing off of spherical mirrors.					
	OS Kernel — C: Modified the Pintos operating system, a codebase of over 50,000 lines of code, adding process spawning, system calls, thread scheduling, interrupt handlers, virtual memory growing and shrinking, an inode-based file system, and kernel implementations of locks, semaphores, and condition variables.						
	E2E Encrypted File techniques to maint					at uses cryptographic etwork and server.	
relevant	Operating Systems	Operating Systems & Systems Programming Data Structures & Algorithms					
coursework	Database Systems	Database Systems Efficient Algorithms & Intractable Problems					
	Computer Security		A	Artificial Intelligence	•		
experience	Private Tutor, Phys	sics and Com	outer Science		Aug	ust 2019 — Present	
		→ Created semester plans for high school and college students based on				learning styles and strengths.	
	\Rightarrow Compiled and created study materials such as equation sheets and assignments.						
	Lab Assistant for the Structure and Interpretation of Computer Progra at UC Berkeley				rams August	— December 2018	
	→ Provided support to academic staff in teaching the introductory computer science course CS61A.						
		↔ Offered one-on-one tutoring during office hours and administered group-based activities.					
	Tutor of Physics, Math, and Computer Science at the City College of San Francisco				Octobe	r 2016 — May 2018	
	↔ Provided drop-in tutoring services, both individual and group based, for fellow students.						
	↔ Worked to improve graduation rates among under-represented groups and communities.						
honors	Tau Beta Pi Engine	Tau Beta Pi Engineering Honor Society at UC Berkeley			F	Fall 2018 — Present	
	Transfer Scholarship from UC Berkeley					Summer 2018	
	Alpha Gamma Sigi	Alpha Gamma Sigma Honor Society at the City College of San Francisco				017 — Spring 2018	
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