DIVYA VENKAT

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EDUCATION		
	Northeastern University (Dean's List, Connections Scholarship)	May 2022
	Bachelors in Computer Engineering and Computer Science	Major GPA: 3.81
SKILLS		
	C++, Python, SQL, Java, Javascript + Typescript, Linux kernel programming, Git, Docker	
	SQLite, RStudio, MongoDB, programming FPGA using Xilinx tools, basic encryption/de	
	MATLAB, Stata, CAD, functional programming (Scheme, Rust), Verilog, Microsoft Suite	e + VBA
PROJECTS		
	Food Nutrition Analysis/Meal Planner Software	
	Pulled data from USDA databases to create a software using SQL + Python that compu	
	content of any individual recipe, finds if a diet is deficient in any given nutrient, and gi	ves exact recommendations
	for supplementation.	
	T.R.A.S.H Bot	a datast officiantly sock out
	Wrote research proposal for, designed, and created an autonomous UAV + UGV pair t	-
	and collect roadside litter – a more cost efficient and reliable solution to a billion dollar	ir problem. Won first place
	among thirty teams in Capstone Competition. Circuit Toolkit	
	Created a fully autonomous python script capable of fully analyzing any given circuit (AC and DC)
LANGUAGES	Created a fully autonomous python script capable of fully analyzing any given circuit (AC and DC)
LANGUAGES	Fluent English, Intermediate Hindi, Fluent Tamil, Intermediate Spanish, Beginner Fren	rh Reginner lananese
	riacite English, intermediate rilital, riacite rainii, intermediate spanish, segiinter rich	on, beginner Japanese
EXAMS		
	SAT 1560/1600	
TECHNICAL EX	PERIENCE	
	Software Developer at Moody's Analytics	6/2022 – present
	Backend development of modeling software AXIS, primarily in C++.	•
	Independent research + programming of new financial modeling features for clients.	
	Database Development Intern at Global Atlantic Financial Group	6/2021 – 9/2021
	Initiated extensive restructuring in large data sets to increase efficiency	
	Automated calculations and report generation, saving 5+ hours a week	
	Created capacity models, metric reports, and balancing reports	
	Software Engineering Intern at GetACab Inc.	5/2019 – 9/2019
	Used geohash encoding to efficiently store lists of positional coordinates	
	Periodically archived positional data updates for analysis.	
	Modified citymap geometrical analysis algorithm to save 16 ms on every transaction.	
	Wrote python scripts to migrate the data from app's servers to client servers.	
	Research Assistant for Kaushik Chaudhury, Ph.D.	9/2018 – 3/2019
	Worked on the positioning system for UAV-mounted software	
	radios for an Air Force funded project to create an optimized 5G network.	
	Wrote global positioning scripts in Python and translated code	
	meant to run on CPU for GPU using CUDA toolkit	
EVED A CLICAL	HAD WOLLINITEED EVDEDIENCE	
	ULAR/VOLUNTEER EXPERIENCE	7/2040 0/2024
ASSOC	iate at EduRaise	7/2019 – 9/2021
	Raised over \$5000 in donations to reduce tuition by 25% for underprivileged students. Designed online grassroots fundraising campaign.	
SATC	oach at Kaplan Test Prep Inc.	3/2019 – 9/2021
SAIC		3/2019 – 9/2021
Pasas	Individually tutored prospective SAT takers (part-time). Individually tutored prospective SAT takers (part-time). Individually tutored prospective SAT takers (part-time).	9/2016 – 3/2017
	nce Writer and Artist	3/2010 - 3/201/
rieeld	published in Canvas Literary Journal, Mindframes Magazine,	
	Celebrating Art Anthology, Polyphony H.S Magazine	
F-114	tor Polyphony H.C. International Magazine	10/2016 E/2019

10/2016 - 5/2018

Editor for Polyphony H.S. International Magazine