Kevin Vuong

Hastings, NE <u>kvuong@nd.edu</u> linkedin.com/in/kevin-vuong-nd/_] +1-(402)-706-4609 git	thub.com/aLittleQurious
EDUCATION & CERTIFICATES	Ermonted Creductions Mar 2027
University of Notre Dame, Notre Dame, IN	Expected Graduation: May 2027 GPA: 4.00/4.00 / ACT: 35
College of Engineering, Bachelor of Science in Electrical Engineering & Mathematics	GPA: 4.00/4.00 / ACT: 55
Major: Electrical Engineering Mathematics with Honors	anathan CalidWashan AsstaCAD
Independent Studies: Group Theory, Calculus II & III, Vector Calculus, Linear Algebra, CAD (I	nventor, Sondworks, AutoCAD,
REVIT, Cura), Programming Languages: Python, HTML & CSS, LaTeX, C++, IBM Qiskit	
Certificates: Microsoft Word, Excel, PowerPoint, Office PROJECTS	
Quantum Computing: Haq.ai (https://www.haq.ai/), CEO, Notre Dame, IN	Aug. 2023 – Present
 Developed interactive website that allows anyone to learn Quantum Computing through i 	_
deeper understanding and practice for Hackathons.	incruent ve problems, endomig
 Collaborated with online Unitary Fund, QWorld, and other Quantum Computing communications. 	nities to establish and maintain
community of ~500 active users	nues to establish and maintain
 Leveraged IBM's Qiskit programming language to implement 10 problems, contributing 	to over 100 coding challenges
ensuring diversity of problems and depth of user knowledge.	to over 100 coung chancinges,
YouTube Math Content Creator, (Created with Manim Coded in Python), Notre Dame, IN	Sep. 2022 – Present
 Lead and developed introductory explanatory <u>Mathematical Video</u> on mathematical injec 	-
focused on educating wider mathematical community.	tions, surjections, and orjections.
 Utilized Python's Manim Library to engineer animations, enabling quick and streamlined 	scanas
 Currently developing video analyzing the Rubix Cube and its representation via Permutat 	
Self-Programmed ROBLOX Reselling Business, (Coded in Python) Founder, Hastings NE	Aug. 2019 – March 2022
	e e
• Launched & maintained self-employed business on ROBLOX (Gaming Platform) during	COVID-19.
• Generated \$12,000+ in revenue and \$4600+ in profit passively at 15-years-old.	
• Automated sales of goods to reduce total requests and API calls by 80+%.	
• Developed accounting & statistics system to accurately record projected profits and taxes	
Native American Tribe Webscraper, (Coded in Python) Coding Project, Hastings NE	Aug. 2022 – Sep. 2022
• Designed Webscraper that collects contact info on all 574 Native American Tribes.	
• Utilized by Native American Conservationist to streamline contact efforts.	
• Interfaced with SerpAPI to reduce the number of requests and ultimate runtime.	
RESEARCH & EXTRACURRICULAR ACTIVITIES	
Undergraduate Researcher in Quantum Computing, Notre Dame Nanophotonics Lab	Sep. 2023 – Present
Developed Quantum Circuits in IBM's Qiskit to model Quantum-Enhanced Support Vec	ctor Machines to analyze advantages
and disadvantages compared to traditional Support Vector Machines.	
• Implemented Quantum Circuits to re-create low-level adder circuits.	
Argonne Leadership Computing Facility AI Participant, Argonne National Laboratory	Jan. 2023 – Present
Utilized ALCF's 44 Petaflop Polaris Supercomputer to train Convolutional Neural Netw	orks modeling the MNIST
Handwritten dataset.	
Leveraged mpi_pi and Parallel Computing on Polaris Scheduler to approximate Pi with	10-nodes via Monte Carlo method
for demonstrating Data Parallelism and Model Parallelism.	
ND Rocketry – Apogee Control System Group (ACS), Statistician & Software Engineer	Aug. 2023 – Present
Conducted Trade Studies and Rankings of optimal Servomotors and Arduino Boards for	ACS design.
Researched linear estimators and Kalman Filters to accurately actuate ACS motors.	
Enable ND – Prostheses Manufacturing – Myoelectric Engineering Team, Sensor Engineer	Aug. 2023– Present
• Optimizing pressure sensors to automatically rotate and flex prosthesis to desired angle.	
• Designing electrical circuits to reflexively adjust grip string of prosthesis.	

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