

Varun Warrier

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EDUCATION

Georgia Institute of Technology	<i>Bachelor of Science in Computer Science – Intelligence & Devices Concentration</i>	<i>Atlanta, GA</i>
		<i>Aug 2023 - May 2027</i>
<ul style="list-style-type: none">Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Objects and Design, Systems and Networks, Computer Organization and Programming, Database Systems, Machine Learning		

EXPERIENCE

Bloomberg	<i>Software Engineering Intern</i>	<i>New York City, NY</i>
		<i>Jun 2026 - Aug 2026</i>
<ul style="list-style-type: none">Incoming		
Verkada		
	<i>Software Engineering Intern</i>	<i>San Mateo, CA</i>
		<i>Jan 2026 - May 2026</i>
<ul style="list-style-type: none">Access Control Backend		
HubSpot		
	<i>Software Engineering Intern</i>	<i>Cambridge, MA</i>
		<i>May 2025 - Aug. 2025</i>
<ul style="list-style-type: none">Architected and launched backend functionality of an AI audio isolation service, utilizing Kafka-driven RPC endpoints, async workers, dynamic audio chunking, and real-time usage tracking and credit-spend limitingAutomated file-lifecycle hygiene with a worker processing 5000+ messages/day by building cascading-deletion and orphan-prevention pipelines, trimming S3 storage by 4% and eliminating render-chunk errors in productionStrengthened reliability by designing worker patterns with retry logic that caught 120,000+ previously uncaught exceptions, containerizing FFmpeg workflows in Docker, and broadening acceptance-test coverage		
Georgia Tech School of Computing Instruction		
	<i>Undergraduate Teaching Assistant</i>	<i>Atlanta, GA</i>
		<i>Aug 2024 - Present</i>
<ul style="list-style-type: none">Led weekly labs for 40+ students in hands-on exploration of digital logic, ASM, and C programmingSupported a course with 700+ enrolled students by co-designing graded lab assignments, autograders, and detailed solution manuals, streamlining grading, and ensuring consistency across several different course sectionsAssisted students through online tickets and office hours to ensure course schedule and minimize repeat questions		

PROJECTS

CodeVerse <i>Flask, Monaco Editor, Mantine, Gemini API, RealtimeSTT, Google Cloud</i>
<ul style="list-style-type: none">Built a full-stack AI coding interview simulator, combining Flask, Monaco Editor, and Mantine with Gemini API to simulate a dynamic, voice-interactive interview environment, featuring real-time, bidirectional audioIntegrated RealtimeSTT library for low-latency speech input, and Google Cloud text-to-speech for voice outputDesigned dynamic interview logic for real-time code evaluation, question adaptation, and contextual follow-ups
Rentify <i>Django, PostgreSQL, MVC, RESTful APIs</i>
<ul style="list-style-type: none">Designed and implemented a peer-to-peer rental platform supporting item listings, bookings, and paymentsDeveloped RESTful APIs using Django and PostgreSQL with an MVC architecture to support user authentication, inventory management, and transactional workflowsCreated model validation, error handling, and data relationships to ensure platform reliability and consistency
Q-Wordle <i>Machine Learning, Q-learning, NumPy, Python</i>
<ul style="list-style-type: none">Designed and implemented machine learning agents with three different approaches (Naive Bayes, Monte Carlo Tree Search, and Q-learning) to solve Wordle, achieving 97% accuracy and 3.8 average guesses with Q-learningDeveloped custom Q-learning reward functions and leveraged NumPy for efficient training and policy convergenceBuilt preprocessing pipelines and statistical dictionaries for 370k+ word corpus to optimize training and inference

TECHNICAL SKILLS

Languages: C, Java, Python, SQL, JavaScript, TypeScript, React, HTML, Swift, CircuitPython, LC-3 Assembly

Tools: Git, AWS, S3, Docker, Kafka, Amazon SQS, FFmpeg, MySQL, Kubernetes, Jenkins, Grafana, cURL, GDB

Libraries/Frameworks: gRPC, OpenCV, Django, ROS2, Dropwizard, NumPy, Matplotlib, Gemini, Javalin, JavaFX