

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>
• 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, NY</i>
		<i>Jun 2026</i>
• Incoming		
Verkada		
	<i>Software Engineering Intern</i>	<i>San Mateo, CA</i>
		<i>Jan 2026 - Present</i>
• Incoming - Access Control Backend		
HubSpot		
	<i>Software Engineering Intern</i>	<i>Cambridge, MA</i>
		<i>May 2025 - Aug. 2025</i>
• 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 limiting		
• Automated 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 production		
• Strengthened 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>Atlanta, GA</i>
<i>Undergraduate Teaching Assistant</i>		<i>Aug. 2024 - Present</i>
• Led weekly labs for 40+ students in hands-on exploration of digital logic, ASM, and C programming		
• Supported 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 sections		
• Assisted 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>	
	• 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 audio
• Integrated RealtimeSTT library for low-latency speech input, and Google Cloud text-to-speech for voice output	
• Designed dynamic interview logic for real-time code evaluation, question adaptation, and contextual follow-ups	
Rentify <i>Django, PostgreSQL, MVC, RESTful APIs</i>	
• Designed and implemented a peer-to-peer rental platform supporting item listings, bookings, and payments	
• Developed RESTful APIs using Django and PostgreSQL with an MVC architecture to support user authentication, inventory management, and transactional workflows	
• Created model validation, error handling, and data relationships to ensure platform reliability and consistency	
Q-Wordle <i>Machine Learning, Q-learning, NumPy, Python</i>	
• 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-learning	
• Developed custom Q-learning reward functions and leveraged NumPy for efficient training and policy convergence	
• Built 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