

Varun Warriier

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science – Intelligence & Devices Concentration

Aug 2023 - May 2027

- GPA: 3.81
- Relevant Coursework: Data Structures and Algorithms, Machine Learning, Deep Learning, Systems and Networks, Computer Organization and Programming, Database Systems, Design and Analysis of Algorithms

EXPERIENCE

Bloomberg

New York, NY

Software Engineering Intern

Jun 2026 - Aug 2026

- Built a full-stack platform to sample and visualize representative deals across live interest rate swap data, allowing engineers and PMs access to reproducible data sets spanning 100+ interest rate and asset swap types.
- Condensed a set of 14M deals into 40k clusters by fingerprinting deals on each swap type's structurally important fields, using tailored keys for the most common types, with the top 500 clusters covering 90% of deals.
- Designed a hybrid deterministic/random sampler with user-selectable filters for regression testing and analysis.

Verkada

San Mateo, CA

Software Engineering Intern

Jan 2026 - May 2026

- Introduced a native visitor management system within the Access Control platform used by 180+ organizations, enabling scoped door credentials, visit access based on templates, and SMS/email credential notifications.
- Built a Kafka pipeline to deliver 300k+ messages/week through webhooks when access credentials are created, modified, and deleted across Verkada's Command UI, CSV bulk import, and SCIM-synced updates.
- Ported bottleneck endpoints from Python to Go, achieving speedups up to 16x and smoothing UI interactions.

HubSpot

Cambridge, MA

Software Engineering Intern

May 2025 - Aug 2025

- 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

Atlanta, GA

Undergraduate Teaching Assistant

Aug 2024 - Present

- 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 designing lab assignments and detailed solution manuals.

PROJECTS

CodeVerse | Flask, Monaco Editor, Mantine, Gemini API, RealtimeSTT, Google Cloud

- 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.
- Designed dynamic interview logic for real-time code evaluation, question adaptation, and contextual follow-ups.

Q-Wordle | Machine Learning, Q-learning, NumPy, Python

- Built ML agents (Naive Bayes, MCTS, Q-learning) to solve Wordle, achieving 97% accuracy and 3.8 avg guesses.
- Developed custom Q-learning reward function and leveraged NumPy for efficient training and policy convergence.
- Built preprocessing pipeline and statistical dictionaries for 370k+ word corpus to optimize training & inference.

TECHNICAL SKILLS

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

Libraries/Frameworks: React, Pytorch, gRPC, OpenCV, Django, ROS2, Dropwizard, NumPy, Pydantic, FFmpeg

Tools: Git, AWS, S3, Docker, Kafka, Kubernetes, Amazon SQS, PostgreSQL, Bazel, Jenkins, Grafana, Linear