

Anirudh Arunkumar

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EDUCATION

Georgia Institute of Technology

Expected May 2025

Degree: Bachelor of Science in Computer Science (Dean's List)

Atlanta, GA

Courses: Data Structures & Algorithms, Low-Level Programming, Machine Learning, Cloud Computing, Statistics, Natural Language, Database Systems, Artificial Intelligence, Computer Networking, Information Security

EXPERIENCE

Truist

June 2024 – December 2024

Software Engineer Intern

Atlanta, GA

- Engineered credit card backend with Python serving 600,000+ users, reducing transaction processing time by 28%
- Integrated an AI fraud detection system using React, TypeScript, & Java, streamlining security for 3+ teams
- Cut user onboarding time by 40% using Swift and Flask REST APIs through a digital wallet provisioning service
- Automated HR document processing using AWS Sagemaker and BERT LLM, eliminating manual labor by 96%

Truist

June 2023 – August 2023

Software Engineer Intern

Atlanta, GA

- Created software with Java and PostgreSQL, helping 3000+ Truist developers adhere with enterprise standards
- Developed a CI/CD pipeline with Jenkins, JUnit for testing, and deployed on an auto-scaled AWS EC2 instance.
- Built a log aggregation service reducing incident response time by 30% using Go, Kafka, and Kubernetes clusters
- Expanded the Compliance API in Golang, building a verification system with AWS Lambda, RDS, SQS, & Batch

LightStream

June 2022 – August 2022

Software Engineer Intern

Atlanta, GA

- Enhanced microservices architecture speed with a gRPC implementation in Go, boosting performance by 50%
- Developed reliable and scalable backend lending APIs (15,000+ requests) with Node.js, Express.js, and MongoDB
- Engineered a loan credit risk evaluation system using Python and Apache Spark, cutting approval delays by 24%

Kaelorien Data

May 2021 – December 2021

Software Engineer - Technology Director

Remote

- Developed a C# application with a low-latency Python scraper to store product prices in a PostgreSQL database
- Optimized data ingestion speed by 250% using async tasks, parallel processing, and multithreading techniques
- Designed and implemented a RESTful FastAPI to enable real-time data retrieval from 14+ e-commerce stores

PROJECTS

BlackJack AI Agent & Card Evaluator | Go, JavaScript, AWS, Reinforcement Learning Nov 2024 - Feb 2025

- Created 40 Goroutines, utilizing concurrency to optimize compute-intensive Monte Carlo blackjack simulations, deploying on AWS EC2 using load-balancing AWS Lambda for efficient resource management
- Trained a reinforcement learning agent integrated with a card-recognition computer vision model for strategies
- Engineered a backend using Firebase, integrating Firestore/Auth with D3.js and a React Native for the frontend

Future NBA Game Predictions | React.js, Express.js, Flask, MySQL, Natural Language Aug 2024 - Dec 2024

- Developed a full-stack React.js application with an SQLite database and Express.js backend for game updates
- Created Random Forest, SVM, XGBoost, and Neural Networks on 10,000+ games with 70% prediction accuracy
- Implemented an NLP microservice using Python for sentiment analysis, integrating reports and player injuries

Cryptocurrency Backtesting and Trading Algorithm | Swift, Python, Robinhood API May 2024 - Jul 2024

- Developed an automated trading strategy by retrieving live cryptocurrency market data through 3 exchanges
- Implemented robust error handling and rate-limiting to ensure 99.97% site-reliability and continuous operation
- Leveraged SwiftUI for iOS mobile UI and deployed using Google Cloud Platform Build and Run services

Georgia Tech Research in Computer Vision for Lung Cancer and Nanotechnology Aug 2023 - Dec 2024

SKILLS

Languages: Python, TypeScript, JavaScript, Java, Go, C, C++, C#, SQL, PHP, HTML, CSS

Developer Tools: Git, AWS, React, Deno, MySQL, Kubernetes, Docker, .NET, Linux, Hadoop, Spark, Kafka, Bun

Concepts: Full-stack Development, Generative AI & LLMs, Agile & SDLC, DevOps, Frontend/Backend Development, Network Programming, Shell Scripting, Trading, Financial Markets, Distributed Systems, Operating Systems