

# Salman Azeez Syed

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## EDUCATION

### Georgia Institute of Technology

Master of Science in Computer Science | 3.8 GPA

**Expected Graduation: May 2025**

### Netaji Subhas University of Technology

Bachelor of Technology in Information Technology | 3.53 GPA

**Aug 2019 - May 2023**

**Coursework:** Advanced Operating Systems, Computer Networking, Distributed Systems, Computer Architecture, Machine Learning, Artificial Intelligence, Cloud Computing, Algorithms/Data Structures, Cryptography, Database Management, Probability, UI/UX Design

## SKILLS

**Languages** C/C++(7yrs) · Python(4yrs) · JavaScript(5yrs) · TypeScript · SQL · HTML · CSS · Solidity

**Frameworks** React · Node.js · Express.js · Next.js · Tailwind · OpenXR · TensorFlow · PyTorch · IPFS · Redis · MongoDB

**Software** AWS · GCP · Azure · Langchain · Docker · Kubernetes · Unity · Git · Bash · Shell · VR/AR · Neo4j · Pinecone

## EXPERIENCE

### Software Engineering Intern | Python, C#, React, Tailwind, Unity, Langchain, Google Cloud (GCP)

**May 2024 - Aug 2024**

[VIEAURA LLC](#)

Alpharetta, GA

- Lead Developer for a **Gen-AI based Mixed Reality (AR/VR)** OpenXR app to streamline manufacturing processes.
- Engineered a custom **RAG model API** leveraging **Neo4j knowledge graphs**, FastEmbed Vector Embeddings, **FAISS/Pinecone Vector Indexing** and **Gemini 1.5 Pro Multi-modal LLM** with **Zero Upfront Cost** within 3 months.
- Optimized manufacturing workflows reducing training time by 37%, training costs by 40% and boosting worker efficiency by 25% helping **save \$15 million per facility** from rework and scrap reduction (est.).

### Software Engineering Researcher

**Oct 2022 - Apr 2023**

[CYPHEROCK](#)

Singapore

- Collaborated directly with the CEO to drive **startup growth** initiatives, contributing to **successful \$1 million in funding**.
- Conducted comprehensive **security analysis** of crypto hardware wallets, developing strategic vulnerability mitigation solutions
- Developed **high-impact** technical content strategy, boosting **page visits by 460%** and **user engagement by 2000%**

## SOFTWARE PROJECTS

### Dagora: Web3-based Social Media Platform | Published Web-App (In Progress) - [Homepage](#) (MVP 0.1)

**Jan 2025 - Present**

- Building the World's Largest **Web3**-based social media platform currently **scaling to 100k+ users** (MAU).
- Architecting a **fully decentralized** anti-spam serverless platform on Arbitrum Nova, auto-scaling via vercel-serverless.
- Achieves **real-time** updates using The Graph indexing and **Redis Upstash** query caching for **<200ms API latency**.
- Adopted a hybrid storage model using **CloudFlare R2** and **IPFS** with decentralized fallbacks. **70% cost-saving** vs AWS S3
- Migrated ERC-20 contracts to Arbitrum Nova and batched transactions for **90% blockchain-based cost reduction**.

### Patient Matching Framework | Team-Project (In-Progress)

**Jan 2025 - Present**

- Building a **HIPAA-compliant** patient matching and prescription digitization framework using **OpenAI** and **Azure**.
- Developed custom document-processing and dataset annotation **agentic frameworks** to streamline prescription processing.
- Engineered a custom **benchmarking pipeline** with an **in-house dataset consisting** of 500 real-world prescriptions augmented with the **IAM Handwriting Dataset** and automated scheduled runs using **Azure Functions**.

### MapReduce Infrastructure | 2-man Team Project (~60 hours) - [Github](#)

**Nov 2023 - Dec 2023**

- An end-to-end MapReduce Infrastructure using gRPC with shared file system, RPCs and sharding-based file splits.

### QR-code Generator | Open-Source 1.1k stars (~20 hours) - [GitHub](#)

**Oct 2021 - Nov 2021**

- QR-code generator desktop application with Tkinter and Google Drive API for a public automation repository.

## RESEARCH PUBLICATIONS (4 of 7)

### RARE: Resource Allocation using GBDT-distilled Deep Reinforcement Learning for 5G Network Slicing (2024 - [link](#))

- State-of-the-art Resource Policy Optimization framework using ADMM and TD3 without closed-form utility functions.
- Achieved learning rate, utility convergence and **~64x speedup** in inference time (Distillation) faster than state-of-the-art.

### Modelling Distributed and Configurable Hierarchical Blockchain for Large-Scale Internet of Things (2023 - [link](#))

- A novel scalable hierarchical blockchain L1 framework with worst-case TPS improvement of 34% vs industry standard.
- Custom built blockchain using JavaScript and REST APIs stress-tested using Postman against SOTA.

### Applying Ambient Intelligence Techniques for Cognitive and Emotional Awareness in Internet of Things (2023 - [link](#))

### Blockchain Framework for Data Storage and Security (2022 - [link](#))