

Rohit Sai Gopal K C

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github.com/rk02342n | [Portfolio](#)

EDUCATION

Pace University, Seidenberg School of Computer Science & Information Systems

New York, NY

September 2024 - Present

- **Major:** Computer Science **M.S. May 2026**
- **Relevant Coursework:** Parallel Computing, Database Management Systems, Algorithms and Computing Theory, Fullstack Enterprise Application Development, Artificial Intelligence (AI), Supportive Technology for Blockchain, Game Development
- GPA: **3.89/4.0**

New York University, Courant Institute of Mathematical Sciences, Steinhardt School

New York, NY

September 2017 - May 2021

- **Majors:** Computer Science (Courant), Music Technology (Steinhardt) **B.M. May 2021**
- **Relevant Coursework:** Data Structures, Algorithms, Computer Vision, Digital Signal Theory, AI and Music, iOS Programming

EXPERIENCE

TD Securities

New York, NY

Software Engineer

October 2022 - July 2024

- Full Stack Engineer and Frontend Lead for the API Gateway Platform, owning end-to-end development of a platform supporting 100+ internal APIs and 1M+ daily requests across distributed microservices
- Architected and maintained a full stack platform spanning a TypeScript/React frontend and Go/Cassandra microservices backend, driving a ~25% reduction in p95 latency through systematic benchmarking, profiling, and optimization
- Designed and shipped One Stop Search Service using Elasticsearch, reducing operational maintenance time by 70%
- Built consumer-facing Envoy Proxy features in Go with gRPC, enabling self-serve configuration of advanced DNS and routing settings for downstream teams
- Mentored and managed full stack engineers, significantly reducing onboarding time and accelerating feature delivery velocity
- Led technical onboarding and OAuth 2.0 / deployment support for key clients integrating with the API gateway, bridging backend infrastructure with client-facing product needs

Technology Analyst

July 2021 - October 2022

- Built custom Java trade loaders for front-desk traders on the Valuation and Risk Services team, developing internal APIs and ingesting high-throughput streams of semi-structured data into HDFS
- Collaborated cross-functionally with UI/UX to design and ship a scalable product analytics pipeline that aggregated user behavior data, helping narrow down business needs and roadmap consequently increasing user retention by 30%
- Led recruiting and interviewing for the bank's intern and engineering analyst programs

PROJECTS

Checkpointeer

React, TypeScript, Bun, Hono, tRPC

- Implemented Checkpointer, a modern full-stack web application for video-game cataloging and reviews
- Designed REST API and Neon PostgreSQL data models to support scalable game and user metadata with fully typesafe backend
- Optimized frontend context logic by utilizing Tanstack React-Query server state-management and optimistic updates
- Containerized and deployed a cross-platform React Native mobile app driving product strategy from concept to release
- Added review summarization using RAG pipeline, aggregating community sentiment into concise, spoiler-free game overviews
- Deployed the production application to AWS, handling end-to-end cloud configuration and release management using EC2

Implied Volatility Prediction Model

ML, Python3, pandas, Seaborn

- Developed a [predictive machine learning model](#) on \$SPY options chain data (2020–2022) to forecast implied volatility and price call options using the Black-Scholes formula for a full stack fintech MVP
- Engineered and trained a Random Forest regression model in Python with Scikit-Learn, utilizing NumPy and pandas for data preprocessing and Seaborn for exploratory data analysis and visualization

SKILLS AND INTERESTS

- **Programming Languages:** TypeScript, Go (Golang), Python, Java, C, C++, C#, JavaScript
- **Technologies & Frameworks:** React, Node.js, Next.js, Redux, PostgreSQL, Redis, Elasticsearch, Docker, Kubernetes, FastAPI, Amazon Web Services (AWS | EC2, S3, RDS), Google Cloud Platform (GCP), LLMs, MySQL, CI/CD, GraphQL, OpenRouter, HTML5