

Aarish Kodnaney

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EDUCATION

Northeastern University

Boston, MA

B.S. Computer Science and Business Administration, expected Spring 2029

Sep 2025 – May 2029

Relevant Coursework: Programming in C++, Data Structures and Algorithms, Program Design & Implementation II (Java, OOD, design patterns), Program Design & Implementation I (Python), Intro to Databases (SQL, schema design), Discrete Structures, Financial Management, Accounting, Corporate Finance

EXPERIENCE

Munich Re

Princeton, NJ

Data Engineer Intern (extended part-time through Dec 2026)

May 2026 – Present

- Developed and released a production Python logging package routing structured logs to Azure Application Insights and Delta tables; versioned and published it to an internal JFrog Artifactory registry, reaching 12% adoption across domain specific internal Python projects
- Reverse-engineered an acquisition's undocumented database using LLM-assisted column-name matching and value-overlap scoring to recreate ER diagrams; shipped findings as DBML schema files and a deployed Databricks visualization app for team-wide exploration
- Built natural-language query application over a 516M-row Spark SQL platform from design through testing to deployment; validated it against 78 stakeholder requirements, satisfying 45 and authoring the root-cause writeups and configuration guides covering the rest
- Forked an open-source coding agent (OpenCode) and modified its provider and authentication layer to route requests through the firm's internal gateway over HTTPS; demoed to engineering management as a developer-productivity pilot

Ramp

Cambridge, MA

Selected Participant, HackWeek

September 2026

- One of 48 students selected for an invite-only 3 day event where participants learned about Ramp's developer workflows/tools, including Inspect, their internal AI harness. Also participated in fireside chats, coffee chats, and developer puzzles/challenges

NUImpact

Boston, MA

Rotational Associate

June 2026 – Present

- New member. As a rotational associate I'm spending half my semester as a Junior Analyst in the Technology and Financial Services vertical, and the other half in Fund Development
- NUImpact is Northeastern's impact investing venture capital fund. \$600K AUM

Northeastern Disrupt

Boston, MA

Quant Team

January 2026 – April 2026

- Developed a statistical arbitrage model in Python using cointegration analysis to identify mean-reverting spread opportunities between Philip Morris and British American Tobacco
- Collaborated with a team of analysts to research and implement strategies across equities and derivatives in a simulated paper trading portfolio, specifically IV-RV arbitrage via credit spreads

PROJECTS

Automated Expedition Scheduler | Go, algorithms, automated benchmarking

Aug 2026

- Wrote a constraint-based scheduling engine in Go handling capacity, eligibility, and fairness constraints across overlapping assignments; iterated against an automated scoring harness, profiling and tuning heuristics to reach a 95% evaluated score within the runtime budget

Interactive 3D Portfolio Site | JavaScript, Three.js, WebGL, Vite, Node.js

June 2026

- Built a scroll-driven WebGL scene with HDRI lighting, PBR materials, and damped camera easing; debugged rendering and mesh-identification issues with browser dev tools, then configured the build pipeline and deployed to a Linux host with a pinned Node runtime after diagnosing a version-mismatch failure

Agentic Financial Document RAG | Python, LangChain, ChromaDB, HuggingFace

December 2025

- Built a retrieval-augmented system over structured financial filings with function-calling and multi-step query routing, backed by a ChromaDB vector store with guardrails against unsupported model output

SKILLS

Languages: C++, Java, Python, SQL, TypeScript, JavaScript, HTML/CSS

Frameworks: React, Node.js, Django, Next.js, LangChain, JLine

Databases: MySQL, MongoDB, Spark SQL, Delta Lake, schema design, query optimization

Developer Tools: Git, Docker, Databricks, Azure DevOps, JFrog Artifactory, Claude Code, Codex, OpenCode, Replit, Cursor, Github Copilot

Libraries: Pandas, NumPy, Matplotlib, yfinance, ChromaDB, Apache Spark, PySpark, Django

Certifications: Finra SIE