Vedant Naik

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WORK EXPERIENCE

BlackRock Financial Management Inc., New York, United States

Director   *January 2025 – Current*
- Led Aladdin Studio Developer Application Platform – oversaw Full-Stack and DevOps engineering teams. Increased platform adoption by revamping product strategy, streamlining delivery and operations workflows
- Led Aladdin SDK Framework, managed foundational layer of the architecture and was a key member of SDK Governance Council for managing Domain SDKs built across the firm
- Managed Client go-lives from a technical standpoint – including infrastructure setup, preparing runbooks and handover plans. Incorporated rapid custom solution development and platform enhancements as needed
- Produced executive reports highlighting the Studio Developer ecosystem's business impact, shaping strategic product design decisions to advance key firm objectives.
- Served as the member of the Studio Architecture Review Panel making key architecture decisions

Vice President   *January 2021 – December 2024*
- Architected and led development of core Aladdin SDK and API Plugin architecture, totaling over 1M API calls in preview phase of rollout. Designed OpenAPI based dynamically extensible SDK paradigm (Patent pending).
- Implemented Observability and Metrics for Aladdin Studio Developer Platform. Introduced OpenTelemetry based solutions and evolved the Operations Platform for mature oversight and resilience capabilities reducing the number of user inquiries by 30% and bringing resolution times down to an average of 1 week.
- Spearheaded process improvements for Platform Development team's SDLC practices. Setup a structured release management system, introduced Code Quality Reporting for key squads in the business unit.
- Led multiple workstreams for BlackRock-Microsoft Co-build Engagement to migrate platform and workloads from TKGI to AKS. Responsibilities ranged from assisting with SOWs, designing solutions to managing cross-functional delivery teams
- Developed key python and golang utility components which are widely adopted across the firm

Associate   *January 2019 – December 2020*
- Designed and implemented Aladdin Studio's backend infrastructure for Studio search and discovery. Performed comparative analysis and devised a solution for multi-datasource metadata indexing and search.
  Deployed BlackRock's first production GoLang server.
- Implemented L2 cache for one of the core BlackRock services that provides time-critical information on securities resulting in improved response and cold-boot times and reduced database hits from SecurityServer
- Collaborated to build 'datafabricpy' – GraphQL based highly scalable foundational solution for Data Services

APG-Exec-Graduate Analyst   *August 2016 – December 2018*
- Designed and implemented performance monitoring dashboards for Liquidity and Counterparty Risk applications, identified areas of improvement and improved data staging performance based on the insights
- Simplified workflows for other development teams to plugin data streams into Client Reporting tools by implementing feature enhancements on Gem Server's data transformation and QC mechanisms
- Built ETL process using RSA's Archer APIs to load Internal Audit Engagements into BlackRock's Audit systems

Software Developer Intern   *June 2015 – July 2015*
- Developed a regression server to store and replay BMS messages in time-series, using Spring and Cassandra
- Designed and implemented server to cache updates from Dashboard tables and serve as web application backend

ACI Worldwide Inc., Pune, India
Associate Software Engineer   *July 2013 – June 2014*
- Migrated retail banking & merchant software components to Postilion SDK framework
- Developed mission critical reporting components tailored to clients' specifications using Java and SQL Server

TATA Research Development and Design Center, Hadapsar, India
Project Intern (Senior Year Project)   *July 2012 – March 2013*
- Led the team in developing a Decision Support System for Workforce Allocation using constraint satisfaction programming. Improved employee retention by 10%. Awarded "Best Project - Presentation" and "Best Web App"

EDUCATION

Northeastern University, Boston, MA (*Master of Science in Computer Science*)   *September 2014 - May 2016*
College of Computer and Information Science, **GPA: 3.9/4.0**
Courses: Programming Design Paradigm, Algorithms, Managing Software Development, Parallel Data Processing, Foundations of AI, Information Retrieval, Data Mining Techniques, Web Development
Academic Projects: Primarily focused on data processing exercises
    Artificial Intelligence – Implemented informed state-space search, probabilistic inference, and reinforcement learning algorithms in UC Berkeley's Pacman AI project using Python
    Information Retrieval – Developed a search engine for topical querying. Crawled over 90,000 web documents, built custom indexes, and implemented Machine Learning algorithms to obtain retrieval ranked lists.
    Data Mining – Automated data pre-processing, model estimation and validation, to analyze and forecast seasonality and trends of reviews from Yelp Dataset. Used Python and R, STL algorithm, ARIMA and Holt-Winters models.
    Parallel Data Processing – Implemented Hadoop like parallel data processing system to mimic MapReduce. Compared performance with Hadoop on single and multiple Amazon EC2 instances.

University of Pune, Pune, India (*Bachelor of Engineering in Computer Engineering*)   *June 2009 - May 2013*
Sinhgad College of Engineering
Related Courses: Advanced Database Management Systems, Object Oriented Modeling and Design, Information Security

TECHNICAL SKILLS

Languages:	Python, GoLang, TypeScript, Java, Racket, Scala, R
Databases:	Snowflake, Sybase(IQ), Cassandra, MongoDB, MySQL
Tools:	Solr, ElasticSearch, Jaeger, GraphQL, Claude, OpenAI
Platform/Framework:	Kubernetes, Docker, React, Redux, Angular JS

INTERESTS/ACTIVITIES

- Gaming, Formula 1, Improv, Reading, Writing, Theatre, Automobiles
- Game design: Developed a Baby Shower Trivia App to be incorporated in party events