

Abhir Naik

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EDUCATION

Northeastern University <i>BS in Computer Science and Business Admin., Concentration in FinTech</i>	Expected Grad: May 2027 Boston, MA
• Relevant Coursework: Graduate Algorithms, Object-Oriented Design, Computer Systems, Financial Management, Linear Algebra and Differential Equations, Investments, ML For Finance.	

EXPERIENCE

Cloud Infrastructure & DevOps Intern <i>Babbage Insight</i>	May 2025 – July 2025 Remote
• Developed reusable infrastructure modules to enable consistent, scalable provisioning of AWS resources across multiple projects, reducing deployment time and eliminating configuration drift between environments. • Designed and deployed automated GitHub token renewal system to prevent service disruptions from expired credentials, ensuring continuous integration workflows remained operational without manual intervention. • Built scalable GitOps infrastructure workflow enabling peer-reviewed infrastructure changes through pull requests, improving change visibility, reducing deployment errors, and establishing audit trails for all infrastructure changes. • Standardized DNS management across multiple domain providers to ensure consistent, reproducible DNS configurations and streamline zone migrations between registrars. • Automated deployment pipelines across multiple repositories to accelerate development velocity, reduce manual deployment overhead, and ensure consistent build and deployment processes. • Implemented security policies to enforce development on authorized infrastructure only, protecting production environments and ensuring compliance with company security standards. • Standardized developer environments with automated backup and snapshot capabilities to reduce environment setup time, ensure consistency across team, and prevent data loss during development. • Maintained comprehensive infrastructure documentation and testing protocols to ensure system reliability, facilitate knowledge transfer, and enable rapid troubleshooting of deployment issues.	

Machine Learning Cloud Engineer <i>IntelNeuron LLC</i>	Jan. 2025 – March 2025 Remote
• Migrated proprietary AI trading algorithms from the CEO's local development environment to AWS EC2 cloud infrastructure, eliminating local storage bottlenecks and enabling continuous, scalable cloud-based execution. • Reduced model backtesting by 85% using AWS cloud compute resources to process and analyze 10+ years of historical stock market data in parallel, implementing distributed computing workflows across EC2 instances. • Reduced fine-tuning time of critical model hyperparameters including lookback window size, training epochs (EPOCHS), dropout regularization rate, and learning rate schedules across large-scale parallel simulations to systematically improve live-trading robustness, prediction accuracy, and risk-adjusted returns. • Enabled rapid iteration and validation of trading strategies by implementing automated testing pipelines and streamlined deployment workflows, significantly accelerating the entire research-to-deployment pipeline and reducing time-to-market for new algorithmic trading strategies.	

PROJECTS

CloudSense Platform <i>React, TypeScript, Python, AWS boto3, GitHub Actions</i>	Dec. 2024 – Present
• Built a comprehensive AWS cost optimization and security suite integrating four core services: Zombie Resource Hunter, Right-Sizing Recommendation Engine, Compliance Validator, and Post-Mortem Generator in a unified React TypeScript interface. • Engineered Python backend services using AWS boto3 to analyze real AWS infrastructure data, identifying unused resources, right-sizing opportunities, security vulnerabilities, and cost trends across EC2, EBS, RDS, ELB, and S3. • Implemented automated CI/CD pipeline with GitHub Actions for weekly infrastructure scans across multiple AWS regions (us-east-1, us-west-2) using IAM role-based authentication and secure credential management. • Designed interactive data visualization dashboard with drill-down capabilities, filtering, and export functionality (JSON, CSV, HTML) to deliver actionable insights for infrastructure optimization and cost reduction. • Successfully identified real cost savings opportunities in production AWS environments, providing detailed recommendations for resource cleanup, instance right-sizing, security hardening, and spending optimization.	

Additional Projects

- Visit abhirnaik.me for access to individual service implementations and additional DevOps portfolio projects.