

Abhir Naik

203-275-7032 | abhirnaik2005@gmail.com | linkedin.com/in/abhirnaik | abhirnaik.me

EDUCATION

Northeastern University

Expected Grad: May 2027

BS in Computer Science and Business Admin., Concentration in FinTech

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

May 2025 – July 2025

Babbage Insight

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

Jan. 2025 – March 2025

IntelNeuron LLC

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 | React, TypeScript, Python, AWS boto3, GitHub Actions

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.