

Ayyaz Akin

New York, NY | 703-672-0721 | ayyazakhtar1@gmail.com | ayyazakhtar.com

/***** Summary *****/

Infrastructure · Security · Routing · Automation · DevEx · Observability · Incident Management

Hands-on software engineer with 10+ years of experience designing, building, and scaling distributed systems, developer platforms, and high-impact software architectures. Proven ability to drive cross-functional initiatives, mentor engineering teams, and deliver highly available, secure, and performant systems. Adept at bridging technical vision with business goals through strong communication and strategic leadership.

/***** Recent Experience *****/

#!/usr/bin/env Architect

- > Designed a staging environment with support for ambiguous multi-origin routing.
- > Leveraged edge cloudlets to enforce IP access control and configured redirect rules.
- > Streamlined subdomain structure for cross-origin support and secure PCI integration.
- > Integrated DNS split-view architecture to simplify management of multi-region failover.
- > Architected and deployed a dynamic routing portal, enabling self-service route control.

#!/usr/bin/env Technologist

- > Reduced pipeline runtimes by 20+ minutes by implementing a remote cache solution.
- > Designed a fully automated CI/CD library to handle pull request to canary deployment.
- > Developed a scalable static web proxy solution to serve internal documentation and apps.
- > Increased web throughput by 70% by optimizing caching layers and eliminating bottlenecks.
- > Implemented a polymorphic logger for web services, connected to centralized observability.

#!/usr/bin/env Researcher

- > Developed observability dashboards for service/container/system/host monitoring.
- > Discovered vulnerable open endpoints from the NYU domain and created pentest reports.
- > Hosted a global capture the flag competition with over 1800+ teams and 4500+ players.
- > Built secure hybrid infrastructure with VPN, segmentation, and 2Factor authentication.
- > Researched wireless network attacks such as deauthentication, spoofing, and rogue APs.

#!/usr/bin/env Strategist

- > Technology lead on Disney+, Star+, ESPN+, and Hulu Web Architecture/Infrastructure.
- > Support developers with debugging, troubleshooting, requirements, and implementation.
- > Monitored roadmap milestones progress to deliver strategic work and adjust priorities.
- > Automated, gathered, and displayed team metrics to support data-driven decision-making.
- > Participated in cross-functional working groups to promote cross-organization alignment.

#!/usr/bin/env Facilitator

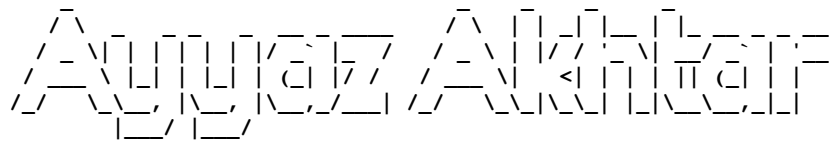
- > Converted technical ideas into engaging demos, ensuring features to stakeholders.
- > Conducted fire drills to identify gaps and improve production incident management.
- > Supervised pairing sessions to foster knowledge sharing, collaboration, and cohesion.
- > Socialized RFCs to stakeholders and teams to gather feedback and refine requirements.
- > Hosted scrum workshops to teach work breakdown, story/mapping, mob programming, and TDD.

/***** Profession *****/

[09/21-Today] Lead Software Engineer (DevOps)@Disney Streaming:~/New York/NY
[11/19-09/21] Sr. Software Engineer (DevOps)@Disney Streaming:~/New York/NY
[01/18-10/19] Sr. Software Engineer (Full-Stack)@Capital One:~/McLean/VA
[11/16-01/18] Software Engineer (Full-Stack)@Capital One:~/McLean/VA
[01/16-11/16] Software Engineer II (Full-Stack)@Booz Allen Hamilton:~/McLean/VA
[08/14-01/16] Software Engineer I (Full-Stack)@Booz Allen Hamilton:~/McLean/VA

/***** Education *****/

[09/23-05/25] MS Cybersecurity@New York University:~/New York/NY ./gpa 3.90
[09/14-05/17] MS Information Technology@Virginia Tech:~/Blacksburg/VA ./gpa 3.97
[09/11-05/14] BS Information Technology@George Mason:~/Fairfax/VA ./gpa 3.32



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11-19 09-21 Sr. Software Engineer (DevOps) @ Disney Streaming: New York NY
01-18 10-19 Sr. Software Engineer (Full-Stack) @ Capital One: McLean VA
11-16 01-18 Software Engineer (Full-Stack) @ Capital One: McLean VA
01-16 11-16 Software Engineer II (Full-Stack) @ Booz Allen Hamilton: McLean VA
08-14 01-16 Software Engineer I (Full-Stack) @ Booz Allen Hamilton: McLean VA

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