# Alice Huston

**Portfolio**: nayeonie.com/ahuston-0
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## Technical Skills & Certifications

**Languages**: Python, Java, Nix, Bash, SQL, C/C++, Typescript
**Frameworks**: Hadoop, Apache Airflow, Kubernetes, Docker
**Databases/Lakehouses**: Starburst, Databricks, Iceberg, Hive, CockroachDB, OracleDB
**OS**: NixOS, RHEL 8, Debian, Ubuntu Server, Windows
**Tools**: LaTeX, Terraform, SQL, PyArrow, OpenGL

**AWS Certified Solutions Architect - Associate**
Amazon Web Services, Mar. 2024

## Experience

### Software Engineer II
Jan. 2025 – Present

*JPMorgan Chase* — *Jersey City, NJ*

- Designed and deployed configurable data ingestion framework using Iceberg CTAS and time-travel for zero-outage updates, orchestrating 200+ refinement pipelines with automated data reconciliation across four zones (OLTP, raw, trusted, refined)
- Implemented PyArrow-based validation and dual-engine architecture supporting on-prem (Starburst) and off-prem (Databricks) reporting for 50+ downstream teams
- Architected and implemented Apache Airflow orchestration supporting 1,000+ tasks per DAG with templated configuration-driven design, tiered pooling to prevent resource exhaustion, and automated partition registration in Trino for large Hive tables
- Led weekly office hours to help onboard new datasets and trained 10 developers to operate and extend the framework across multiple applications, reducing MTTR for incidents
- Led Kubernetes resource optimization across 30+ services in three applications, implementing best-effort QoS in dev and test environments while tuning production resources, achieving $50k annual cost savings in reservations and usage
- Created reusable Helm charts and a shared service layer that enabled 4 platform teams to deploy and configure UI services more consistently

### Site Reliability Engineer
Jul. 2022 – Jan. 2025

*JPMorgan Chase* — *Jersey City, NJ*

- Owned production support for 30 applications across multiple teams, including deployment approvals, incident response, root cause analysis, and post-mortems
- Served as primary support engineer for a Hadoop-based data lake platform spanning Tableau, Kubernetes, Cloud Foundry, Dremio, and S3-compatible object storage
- Served as the team expert on Linux, networking, and Hadoop infrastructure supporting business-critical applications
- Reduced toil and noisy alerts by 40% through automated recovery workflows and tighter monitoring and alerting controls
- Standardized Dynatrace and Splunk onboarding across 30 applications, improving alert coverage and observability consistency
- Automated disaster recovery procedures for a subset of production applications, reducing manual failover steps
- Automated historical data reload workflows using backup cluster for reprocessing and merge back to primary Hive datasets, reducing 72 hours of manual effort to zero and enabling on-demand backfill capabilities

### Software Development Intern
Dec. 2020 – May 2022

*Stevens Institute of Technology* — *(Remote) Hoboken, NJ*

- Led a team of student interns to develop Grail, an OpenGL-based graphics API and browser engine
- Ported C++ networking functionality on Linux to Windows using Winsock
- Added support for ESRI Shapefiles to draw and animate maps through rendering engine
- Improved XDL Type system, a custom standard similar to CORBA, to send and receive statically-typed data

### Research Intern
Jun. 2019 – Dec. 2019

*Maritime Security Center* — *Hoboken, NJ*

- Created an image classification system with OpenCV to filter out noise and detect buoys in a ROS/Gazebo simulation
- Added mapping functionality to plot obstacles onto a 2D map generated by OctoMap
- Optimized the image classification and mapping frameworks to improve reliability in navigation

## Education

**Stevens Institute of Technology** | Hoboken, NJ
Aug. 2018 – May 2022

*B.S. of Computer Science, Minor in Literature* — *GPA: 3.34/4.0*