Alice Huston

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Education

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

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

Technical Skills & Certifications

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

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

Experience

Software Engineer II   Jan. 2025 – Present
JPMorgan Chase   *Jersey City, NJ*

- Created configurable data ingestion framework for automated data refinement and movement for hybrid data lake
- Architected and implemented an orchestration system based on Apache airflow for both event-based and SLA-based data ingestion
- Led weekly office hour sessions to demonstrate and assist with onboarding and configuring new datasets
- Trained a team of developers to support the custom frameworks for use across multiple applications
- Created helm charts for making platform services available and configurable to other teams

Site Reliability Engineer   Jul. 2022 – Jan. 2025
JPMorgan Chase   *Jersey City, NJ*

- Supported 30 applications
- SME for Hadoop data lake, means additional support for Tableau dashboards, Kubernetes applications, cloud foundry applications, maintaining dremio instance, S3 compatible object store
- SME for Linux systems, Networking (firewalls, load balancers, etc.), Hadoop
- Led toil reduction and noisy alert reduction across our applications
- Led onboarding and standardization efforts for observability tooling
- Fully automated disaster recovery procedures across a subset of our applications
- Automated copy, validation of data, and merging of across Hadoop lakes (72 hour effort reduction)

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

Projects

SwitchForward   Jun. 2020 – Aug. 2020

- A **Python**-based Telegram bot to send stock updates for the Nintendo Switch during a supply shortage
- Used the Gmail API to receive and parse emails from a Google Group tracking Nintendo Switch stock
- Sent updates to a Telegram announcements channel used by **5-10** users

Autonomous Robot   Aug. 2018 – Dec. 2018

- An **Arduino**-based robot designed to navigate through a maze
- Primarily worked on pathplanning and control in a dynamic setting
- Implemented basic error-correction to account for drift during navigation