ALYSSA S. HUQUE

Data Engineer

Nike

Department of Data & Artificial Intelligence

Website: www.alyssahuque.com

GitHub: github.com/alyssahuque

LinkedIn: linkedin.com/in/alyssahuque

EDUCATION

University of Oregon, Eugene, Oregon   2017-2021
B.Sc. Mathematics & Computer Science
B.Sc. Political Science

Professional Certifications

Stanford University, 2024
Ethics, Technology, and Public Policy for Practitioners

Harvard University, 2024
Philosophy, Ethics, and Technology

Academic Honors and Awards

Phi Beta Kappa Academic Honor Society	2021
Outstanding Student Employee Nominee	2020
Presidential Undergraduate Research Scholar	2019-2020
Wayne Morse Scholar	2018-2021
Apex Merit Scholarship	2017-2021
Lexwerks Foundation Scholarship	2017-2019
Residence Government Executive Board Member	2017-2018

RESEARCH EXPERIENCE

University of Oregon, Artificial Intelligence   September 2019-June 2020
Department of Computer Science
> *Research Assistant* to Dr. Thanh Nguyen using neural networks to model Stackelberg Equilibrium game theory to aid in anti-poaching wildlife conservation efforts. I crafted literature reviews and evaluated datasets for model training.
> **poster:** *tinyurl.com/huque-nguyen*

Oregon Health & Science University, Informatics   June 2019-August 2019
Department of Medical Informatics & Clinical Epidemiology
> *Informatics Intern* to Dr. William Hersh implementing the Observation Medical Outcomes Partnership Common Data Model for electronic health records. I wrote a program to securely parse and process the health records into standardized data elements.
> **poster:** *tinyurl.com/huque-hersh*

Intel Inc., Research & Development   June 2015-August 2015
> *Research Intern* to Mourad Souag testing solar panel efficiency for a wearable carbon monoxide detector that would be donated to villages in developing countries.
> **article:** *tinyurl.com/huque-souag*

Presentations

University of Oregon Undergraduate Research Symposium   May, 2020
Oregon Health & Science University Informatics Symposium   August, 2019

PROFESSIONAL EXPERIENCE

Nike Inc., Data and Artificial Intelligence
Data Engineer   March 2024–Present
- Responsible for the data infrastructure assessing consumer perception of Nike and its competitors through qualitative sources of information
- Engineering lead overseeing technical design, code reviews, and project resourcing
- Partners with privacy and legal to support regular reviews, ensuring engineering and data practices comply with global laws, policies, and best practices
- Manages communication with cross functional stakeholders and twelve external vendors

Nike Inc., Data and Analytics
Data Engineer   March 2023–March 2024
- Owned the end-to-end enterprise data infrastructure for store reporting and analytics
- Built aggregated data objects for analysis of store performance and growth opportunities
- Snowflake administrator responsible for data privacy classification, efficient storage, and annual data cleanup to ensure compliance with data retention policies

Nike Inc., Corporate Information and Security
Associate Compliance Analyst   September 2022–March 2023
- Automated the detection of security vulnerabilities in financial databases to preemptively address Sarbanes-Oxley (SOX) Act compliance breaches
- Documented security automations to accelerate responses during annual SOX Act audit

Nike Inc., Data and Artificial Intelligence
Associate Data Engineer   March 2021–September 2022
- Automated quarterly and monthly financial reports for over one thousand Nike stores
- Deployed code changes to ensure consumer insight datasets comply with China's Personal Information Protection Law

Ayuda Software
Vice President of Engineering   October 2021–August 2022
- Seed funded start up building an application to improve accessibility of specialized healthcare providers through data collection and a proprietary algorithm
- Responsible for full stake development and establishing engineering best practices

Nike Inc., Consumer Order Management and Fulfillment
Associate Software Engineer   September 2021–March 2022
- Created a Java library to standardize logging across microservices unlocking analytics for key performance indicators of Nike's supply chain
- Built dashboards for senior management and vice presidents for observability of impacts when delays or outages occurs in Nike consumer order management systems

University of Oregon, Mathematics Department
Teaching Assistant   September 2020–June 2021
- Taught mathematics sections for MATH105 (statistics, logic, sets, and probability) and MATH107 (introductory graph theory, modular arithmetic, and apportionment)
- Responsible for teaching mathematics labs, holding office hours, creating lesson plans, and grading student homework and quizzes

Nike Inc., Enterprise Service Management Engineering
Automation Engineering Intern   June 2020–August 2020
- Trained two predictive intelligence programs to automatically route IT requests to the correct support department
- Models saved Nike IT department 1,275 hours of routing time annually
- Developed a virtual agent to automate Excel troubleshooting

University of Oregon, Mathematics Department
Grader   January 2018–June 2019
- Responsible for the scoring of assignments in statistics, calculus, and business calculus

SKILLS

Technical

Languages	Platforms and Tools
Python: Advanced	Spark
SQL: Advanced	Pandas
HTML: Intermediate	GitHub
Java: Intermediate	Databricks
CSS: Intermediate	Wolfram Mathematica
React: Intermediate	Snowflake (administrator)

Languages

English: Fluent (first language)
Bengali: Intermediate
Spanish: Intermediate

Athletics

Swimming: competitive swimmer for ten years, casual swimmer for the last eight years
Running: runs three 5K races a year
Soccer (Football): weekly pickup games