Xinyu Hou

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EDUCATION

Northeastern University   Boston, MA | Expected Graduation: May 2023
MASTER OF SCIENCE IN COMPUTER SCIENCE
GPA: 3.92
University of Virginia   Charlottesville, VA | Aug 2016 - Dec 2020
BACHELOR OF ARTS WITH HIGH DISTINCTION IN PSYCHOLOGY AND COMPUTER SCIENCE
GPA: 3.88   **Psychology GPA:** 3.90   **Computer Science GPA:** 3.95   **Honor:** Dean's List (2016 - 2020)

SKILLS

Programming Languages: Java, Python, C#, C++, Golang, Bash, Javascript, SQL, R, Prolog, OCaml, YAML, HTML/CSS
Technology: AWS, Azure, Git, Perforce, BitBucket, Jira, Docker, Kubernetes, Maven, Postman, Swagger, AnyDesk, TigerVNC, React, Unity, MySQL, SPSS, Qualtrics, Microsoft Office Suite, Adobe Premiere Pro, LaTeX
Languages: Native in Chinese, Fluent in English, Intermediate in German
Certifications: AWS Certified Solutions Architect - Associate, Microsoft Certified Azure Data Fundamentals
Relevant Courses: Research Methods & Data Analysis, Programming Design Paradigm, Program & Data Representation, Mobile Application Development, Computer Architecture, Algorithms, Database Systems, Artificial Intelligence

WORK EXPERIENCE

Engineering Development Group Intern | THE MATHWORKS INC.   May 2022 – Aug 2022

- Built a Music Visualization app using **MATLAB App Designer** and won 3rd place among 70+ team projects in the Natick Hack Day 2022 event
- Developed a test strategy for a product integration project by working with multiple teams and quality engineers
- Created a test framework with **Golang** that performed automated qualification activities for product workflows

Software Engineering Co-op | QUANTUM DIAMOND TECHNOLOGIES INC.   Dec 2021 – May 2022

- Implemented an **ASP.NET Web API** with **C#** that authenticated users and uploaded experiment info to an **Azure Database for MySQL**, speeding up the upload process from minutes to seconds
- Built a more efficient deployment pipeline using Deployment Slots in **Azure App Service**, which allowed developers to validate web app changes before, or roll back deployments after, promoting to production
- Maintained and improved a **Razor Pages web app** by fixing existing bugs and implementing 5+ enhancements

Graduate Teaching Assistant | KHOURY COLLEGE, NORTHEASTERN UNIVERSITY   May 2021 – Present

- Holding 7 hours of office hour per week mentoring students about the concepts of Object-Oriented Programming, such as object, class, method, interface, encapsulation, polymorphism, inheritance, and design patterns
- Assisting two professors by grading students' assignments, projects, and exams

Graduate Research Assistant | PROF ALEXANDRA TO'S LAB, NORTHEASTERN UNIVERSITY   May 2021 – Aug 2021

- Developed an **interactive fiction game** that teaches people how to be allies to someone who experiences microaggression using **Twine** and the **Transformational Framework**
- Conducted literature reviews and presented recent research publications in weekly lab meetings

PROJECTS

CVille Leasing Database ⤴   Aug 2020 – Dec 2020
CS 4750 Database Systems Project

- Developed a leasing database that helped users manage property information using **Google Cloud Platform SQL server** and **Django**
- Won the most practical project award among 20+ projects

Distinguished Majors Thesis in Psychology ⤴   Jan 2020 – Dec 2020

- Presented the research results in a Poster session at the 2020 Diversifying Scholarship Research Conference
- Published the abstract at the UVa's L. Starling Reid Undergraduate Psychology Research Conference