Xinyu Hou

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EDUCATION

Northeastern University

Boston, MA | Expected Graduation: Apr 2023

MASTER OF SCIENCE IN COMPUTER SCIENCE

GPA: 3.95

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 Fundamentals

Relevant Courses: Programming Design Paradigm, Program & Data Representation, Mobile Application Development, Web Development, Computer Architecture, Algorithms, Database Systems, Artificial Intelligence, Computer Vision, Cloud Computing

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 - Dec 2022

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

PROJECTS

Peak Mobile App 🗹

Aug 2022 - Dec 2022

CS 5520 Mobile Application Development Project

- Designed and developed a budgeting app that helped users track their expenses and build better spending habits using Java, XML, Android SDK, and SQLite database
- Implemented features such as expense tracking, budget planning, expenditure analysis, receipt capture via device camera, and password authentication for enhanced security

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**