Bingying Wang

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EDUCATION

University of Utah **GPA: 3.845** Expected May 2026
Bachelor of Computer Science, Minor in Mathematics
Academic Excellence Scholarship July 2021 – May 2025
Dean's List May 2022, Dec 2022, Aug 2024, Dec 2024

SKILLS

Programming Languages: C, C#, C++, Java, JavaScript, Python, R, Ruby, Racket
Technical Skills: Machine Learning (Python), Data Analytics (SQL, MATLAB), Fronted Development (HTML, CSS, JavaScript), AI Model Development, Physics Engines (Unity, QT)
Tools: Linux, Git, Docker, Visual Studio Code, WordPress, JetBrains Suite (IntelliJ IDEA, PyCharm, WebStorm)
Languages: English (Fluent), Mandarin (Native), Japanese (Intermediate)

EXPERIENCE

Tongji Architectural Design (Group) Co., Ltd. **May 2025 – August 2025**
Software Engineering Intern **Shanghai, China**

- Developed backend services for a cloud-based urban planning platform, improving system scalability and performance.
- Designed and implemented RESTful APIs to integrate real-time municipal infrastructure data, optimizing data processing and visualization.
- Enhanced existing software solutions by refactoring code and improving algorithm efficiency, reducing processing latency by 20%.
- Collaborated with cross-functional teams to build robust software solutions for smart city applications, ensuring seamless integration with big data platforms.

LL4MA Lab at the University of Utah **January 2025 – May 2025**
Research Assistant **Salt Lake City, UT, USA**

- Conducting research at the intersection of robotics and machine learning, focusing on reinforcement learning-based control for robotic manipulation.
- Developing and optimizing motion planning algorithms for robotic arms using deep learning frameworks (e.g., PyTorch).
- Implementing Sim2Real transfer techniques to bridge the gap between simulated and real-world robotic execution.
- Utilizing Linux-based systems to configure, deploy, and manage real-time robotic control environments.

Kahlert School of Computing at the University of Utah **May 2024 – August 2024**
Research Assistant **Salt Lake City, UT, USA**

- Developed advanced data processing techniques to enhance security protocols for the Center for High Performance Computing (CHPC).
- Maintained and managed a unified GitHub repository, ensuring seamless collaboration among research team members.
- Designed user surveys and conducted data analysis to inform the development of robust security measures, approved by the IRB.

University of Utah **August 2023 – May 2024**
Teaching Assistant **Salt Lake City, UT, USA**

- Guided students in mastering data structures and algorithms by providing practical examples and hands-on problem-solving sessions.
- Supported professors with homework and exam solution preparation, ensuring accurate and consistent grading.
- Collaborated with faculty to address student learning challenges and improve overall academic performance.

PROJECTS

CHPC Security Research Project
Center for High Performance Computing (CHPC), University of Utah Salt Lake City, UT

- Developed Python-based data analysis workflows to strengthen CHPC security and optimize system performance.
- Designed and executed user surveys to gather actionable insights, enhancing the development of security protocols.
- Utilized SQL and Git for efficient data management and team collaboration.

Shanghai Digital Waterway Initiative
Tongji University Shanghai, China

- Contributed to Shanghai's urban infrastructure project by implementing AI algorithms for real-time waterway monitoring.
- Developed predictive models to support intelligent resource allocation, minimizing inefficiencies in municipal operations.
- Leveraged machine learning frameworks to analyze environmental and operational data, improving sustainability efforts.