

Yu Wang

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EDUCATION

University of Massachusetts, Amherst

MS in Computer Science GPA: 3.85/4.0

Amherst, MA

Expected Graduation: May 2022

Virginia Polytechnic Institute and State University (Virginia Tech)

BS in Computer Science GPA: 3.48/4.0

Blacksburg, VA

Graduation: May 2020

EXPERIENCE

Software Engineer Intern - InfoBeyond Technology LLC

Louisville, KY

Multi-Regulatory-Framework Architecture Tool, funded by NIST [Website](#)

June 2021 - Aug. 2021

- Implemented a web-based workflow to select Risk Management Framework (RMF) (SP 800 53 v5) security and privacy controls for federal information systems and organizations
- Coded and iterated APIs in Golang and MySQL to generate Open Security Controls Assessment Language (OSCAL) document standardized by NIST
- Designed and Implemented user interface and front-end components using Angular, Typescript, HTML and CSS, and conducted angular application unit tests in Jasmine test framework

Research Assistant - Virginia Tech

Blacksburg, VA

Mixed Reality Multiplayer Drone Game, funded by NSF

Feb. 2019 - May 2020

- Designed and implemented a multiplayer game framework for a mixed-reality drone game using Unreal Engine 4
- Developed a central server synchronization scheme to solve multi-drones connection issue by drone-kit, Raspberry Pi, Python Socket Programming and GPS data, reducing lag by 62%

Software Development Intern - AsiaInfo Holdings, Inc.

Shanghai, China

Web Maintenance and Update

July 2018 - Aug. 2018

- Designed and implemented an electronic coupon system with Java, JavaScript, HTML, CSS, and SQL

Research

Research Assistant - 3D Optical Information Lab [Publication](#)

Aug. 2018 - Aug. 2019

- Designed and developed a screenshot software to increase the efficiency to capture data
- Improved F1 score of result from 0.51 to 0.93 by combining CNN and high risk filters

PROJECTS

Wine Review Interactive Visualization

Feb. 2021 - May 2021

- Implemented interactive maps and plots to effectively visualize wine datasets using HTML and D3. [Demo](#)

Slackbot: A Daily Task Management Tool based on Slack Application

Sep. 2020 - Dec. 2020

- Designed and built a user-friendly task management tool supporting both personal and team usage with Node.js, JsonDB, and Glitch

Combined Recognition APIs

Sep. 2019 - Dec. 2019

- Evaluated selected emotion recognition APIs performance on correctness, latency, and utility score
- Suggested possible framework by combining APIs to optimize performance using Markov decision process

ADDITIONAL

- Programming Languages: Python, Golang, R, Java, SQL, C++, C, JavaScript, HTML, CSS, D3, Typescript
- Development Environments: Windows, Linux, VScode, Eclipse, Unreal Engine 4
- Skills: Git, MVC, OOP, UML, unit test, Angular, React.js, Node.js, Docker, machine learning, deep learning