YISHENG HUANG

Developer ~ Engineer

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SUMMARY

Physics Master's graduate with expertise in condensed matter physics, specializing in molecular dynamics modeling. Possesses hands-on experience in Java development and a solid foundation in computer science. Proven ability to contribute to the development of complex systems and applications.

SKILLS

Languages: Java, SQL, Python, JavaScript, HTML, C, MATLAB.

Technologies: React, Spring Boot, Docker, Git, Redis, Jenkins.

PROJECTS

Java/React **JadePanel.com** **github.com/yishengh/jadepanel**
A family financial management system based on Spring Boot 3.1. Leveraged MySQL and Java on the backend, utilizing a Spring Cloud microservices architecture to enable user-friendly management of household investments, income, stocks, funds, assets, and debts. Implemented a user-friendly interface using Ant.Design Pro for seamless interaction.

Java/Vue **RubyChats.com** **github.com/yishengh/rubychats**
RubyChats is a web-based chat application modeled after WeChat, featuring private and group messaging, offline messages, image/file sharing, and friend status display. Developed with Spring Boot and Netty for the backend and Vue.js for the frontend, it supports clustered deployment, with each IM server handling messages for its connected users.

Blog **BuGrammer.com** **bugrammer.com**
A personal blog website built on the Halo platform. Designed for language adaptability, it features Pjax for seamless page loading and adapts to various client devices, ensuring a user-friendly experience.

EDUCATION

9/2021 - 12/2023 **Master of Science in Physics** **Virginia Tech, VA**
Thesis research focused on molecular dynamics and its applications.

9/2017 - 5/2021 **Bachelor of Science in Computer Science** **Virginia Tech, VA**
Specialized in algorithm design and machine learning, culminating in a senior project on natural language processing.

9/2017 - 5/2021 **Bachelor of Arts in Physics** **Virginia Tech, VA**
Explored the intersection of physics and computational modeling, conducting research on computational physics.

EXPERIENCE

9/2021 – 12/2023 **Research Assistant** **Virginia Tech, VA**

- Conducted research in condensed matter physics, specializing in building molecular dynamics models for polymers and droplets. Developed multi-threaded code for data processing.
- Administered office cluster computers, orchestrating software upgrades for optimal performance.

`LAMMPS / Python / MATLAB / Mathematica`

5/2021 – 3/2023 **IT Coordinator** **Blacksburg Chinese School, VA**
Volunteer

- Managed school's digital infrastructure, overseeing website, email systems, YouTube Channel,and implementing online learning platforms for remote education.
- Provided technical support, ensuring seamless operation of digital tools, and maintained office equipment including printers.

`Google Sites / Mailchimp / YouTube`

PUBLICATIONS

1. **Chain conformations and phase separation in polymer solutions with varying solvent quality**
Huang, Y., Cheng, S., *Journal of Polymer Science*, 2021, 59(22), 2819.
2. **Evaporation of Sessile Droplets: A Molecular Dynamics Study**
Huang, Y., Cheng, S., *Bulletin of the American Physical Society*, 2023.