

# Shuhan Yang

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## EDUCATION

2014-2018	<b>BE, Computer Science and Technology</b> Beijing Institute of Graphic Communication	Beijing, China
2019-2022	<b>MS, Computer Science</b> Iowa State University	Iowa, USA

## TECHNICAL SKILLS

Languages: JavaScript, Java, Python, C++, Matlab, SQL, HTML/CSS.

Frameworks: Node.js, Spring Boot, React, Angular, Django, Bootstrap.

Databases: SQL(MySQL), NoSQL(MongoDB).

Develop Tools: Git, VS code, Eclipse, Visual Studio, Jupyter Notebook, Android Studio.

## SELECTED PROJECTS

**Web Development** | Java, React, Node.js, MongoDB, JWT

- Created a **full stack** website for book reviews that enables users to review books and access reviews from professional critics.
- Built user-friendly front end with **Bootstrap** framework and **JQuery**.
- Developed **Restful APIs** with **Node.js** for back-end services.
- Integrated **MongoDB** for scalable data storage.

**Food Delivery App: Eat express** | Java, React.js, Mysql, CI/CD, Git, Mysql, Google Map API

- Designed and implemented a **full stack** android application that allows users to register and login, browse menus, add items to the cart and check out functionality.
- Built front end with **React.js** and implemented back end with **Java**.
- Implement **CI/CD** pipelines using **Git**.
- Utilized **Google Map API** to integrate real-time location tracking.

**Android Application Development: Xinjiang** | Java, Android Studio, Mysql.

- Collaborated in a team of five to develop a **full stack** android application that provides users with registration and login, online assessment and appointments scheduling.
- Using **Java** and **Mysql** for server side and **JavaScript**, **Html5** and **CSS3** for the UI layout.

**AI project in Autonomous Driving** | Python

- The project aims to hide a vehicle before a LiDAR-based perception system by performing the **backdoor attack**.
- Solved the optimization problem by designing a loss function. The attack success rate can be achieved at 95.4%.

## TEACHING ASSISTANT

Aug 2019 - Aug 2021	Object-oriented Programming in Java	ISU
Aug 2021 - Dec 2022	Introduction to Data Structures in Java	ISU
Jan 2023 - May 2023	Formal Methods in Software Engineering	ISU