Jingzhi Zhang

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EDUCATION

Master of Science in Information System, *Northeastern University*   *Sep 2023-Dec 2025*
- Concentration in **full stack software engineering** (**GPA: 4.0**)
- Relevant Topics: Computer Programming (**Java**), **Database Management & Design** (SQL server, MongoDB, PostgreSQL), **Web Design & User Experience** (**HTML**, **CSS**, **JavaScript**, **React, Node JS, Vite**), Data Structure & Algorithms, **Objective Oriented Programming** (OOP), Full Stack Developer (**Spring Boot**, **PostgresSQL**, **Express.JS**, React, Node, TDD, **PERN** stack, Docker, CI/CD)

Bachelor of Statistics, *University of Colorado Boulder*   *Sep 2016-May 2021*
- Concentration in Statistical Computing & **Computer Science**
- Relevant Topics: Calculus, Probability and Statistics, Linear Algebra, **Computer Science Programing** (**C++**), Applied Statistics

EXPERIENCE

Movies Recommendation System – Full Stack & AWS Cloud CI/CD   *Nov 2024 – Dec 2024*
GitHub Source Code**: Link** | Technologies/Tools: **Python, Flask Restful API, MySQL, AWS, EC2, PVC, Github Actions, Recommendation Sys**
- Developed a **cloud-native movie recommendation system** using **Python Flask, MySQL, and AWS**, implemented **RESTful APIs** for querying movie data and user ratings via **relational database schema MySQL** to store **87K+ movie records and 32M+ user ratings**, optimizing data storage with **normalized relationships** and indexing for efficient queries.
- Designed and deployed **a multi-instance architecture** using **AWS EC2** with **separate web application and database servers**, ensuring **scalability and security** through **VPC networking and security group policies**.
- Developed **API endpoints for movie lookup, ratings aggregation, user-tagging features**, and high-performance data retrieval.
- Automated **CI/CD deployment with GitHub Actions**, enabling **continuous integration, testing, and deployment** of the Flask API on AWS

eCommerce Application Development – Spring Boot and React   *Nov 2024 – Dec 2024*
GitHub Source Code**: Link** | Technologies/Tools: **Java, Spring Boot, React, PostgreSQL, MySQL, AWS, JWT, Docker, RESTful APIs**
- Designed and developed a full-stack eCommerce platform using **Spring Boot** for the backend and **React** for the frontend
- Built **RESTful APIs** to manage core functionalities: product management, user authentication, role-based authorization, shopping cart, and order processing, Leveraged **Lombok** to reduce boilerplate code and ensure efficient development
- Integrated **Spring Security** with **JWT** for secure authentication and role management, managed data persistence with **PostgreSQL**, implementing pagination, sorting, and **JPA** relationships, deployed the application on **AWS** with **Elastic Beanstalk**, **EC2** and **RDS**

Personal Portfolio Website   *June 2024 - Present*
Deployed Project**: Link** | GitHub Source Code**: Link** | Technologies/Tools**: HTML, CSS, Bootstrap, Node.js, GitHub**
- Developed a modern **responsive one-page** personal portfolio website via HTML, CSS, and Bootstrap and hosted via Github
- Built a personal website consisting of sections such as home, about me, skills, and all other deployed projects
- Integrated the websites with components like Heroes Snippets, Features, Footers, Carousel, and etc

Tasteful Sky Online - PERN Full Stack E-commerce Application   *Sep 2024-Nov 2024*
- Worked on a full stack e-commerce website via **PERN** stack with **Postgres**, **Express**, **React**, **Node**
- Built both **client** end and **server** end **Restful API** that includes admin dashboard, user dashboard, payment system, and etc
- Implemented advanced E-commerce features like creating category filtering, color selection, pricing filtering, and an efficient shopping cart with calculation capabilities, added payment systems for secure online payment and handle order tracking

La Dolce Vita – Wedding Venue Design   *Nov 2023-May 2024*
Deployed Project**: Link** | GitHub Source Code**: Link** | Technologies/Tools**: React, Vite, JavaScript, CSS, HTML, Node.js, Heroku**
- Constructed a responsive modern single page application (**SPA**) of wedding venue using **React** and **Vite** frontend framework
- Built custom **React** components for the user-facing features via semantic UI and hosted via **Heroku**
- Implemented stateful and stateless components and reusable and repeatable design patterns among **React** framework

TECHNICAL SKILLS

Programming: Java, C++, React, Angular, JavaScript, HTML, CSS, jQuery, Express, Axios, Python, SQL, Redux, Node
Tools: AWS, Python Flask, Sprint Boot, Restful API, Postman, JMeter, Shell, Docker, Heroku, GitHub, Redis, NPM, MongoDB, CI/CD