

SHUAI(LILY) FENG

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Education

University of Pennsylvania, School of Engineering and Applied Science

Philadelphia, PA

Master of Computer and Information Technology

Sep. 2021 – May 2023

Coursework: Data Structures and Software Design, Algorithms and Computation, Computer Systems, Software Development, Discrete Math, Database and Information Systems, Machine Learning

University of Michigan, Taubman College of Architecture and Urban Planning

Ann Arbor, MI

Master of Architecture

Aug. 2017 – May 2019

Technical Skills

Programming Language: Java, Python, C/C++, JavaScript, HTML/CSS

Database Management: MySQL, PostgreSQL, MongoDB

Developer Tools: AWS, Git, IntelliJ, Eclipse, VS Code, XCode, Android Studio

Frameworks: Express, React, Node, Spring Boot, Bootstrap

Projects

Student Management System | *Java, Spring Boot, MyBatis, MySQL*

Jul 2022 - Present

- Build a back-end of student management system for admin/faculty/student using **Java** and **Spring Boot**
- Implement **CRUD** operations and deployed database in **MySQL**, **MyBatis**, **Spring Data JPA**
- Utilize **Apache Shiro** to perform authentication and authorization management

Online Architecture Platform | *HTML, CSS, JavaScript, MongoDB, Express, Bootstrap*

Jun 2022 - Present

- Develop an interactive web application allowing architects to search for landmark buildings and upload images
- Build the client-side views and actions with **HTML/CSS/JavaScript**, and leveraged **Bootstrap** to style web pages
- Utilize **Node.js** with **Express** to handle client requests, and used **Passport.js** as a middleware authentication
- Integrate NoSQL database **MongoDB** to store documents including images on Cloudinary and maps on Mapbox

E-Shop Mobile App | *MongoDB Atlas, Express, React Native, NodeJs*

Apr - Jul 2022

- Created a full-stack e-commerce Mobile Application for **iOS** and **Android** with **MERN** stack using **React Native**, and deployed the server to **Heroku** with **GitHub**
- Implemented back-end services as **RESTful APIs** using **Node.js** with **Express** and tested APIs by **Postman**
- Designed a front-end interface and built the full featured client-side actions using **React** and **Redux**
- Deployed **MongoDB Atlas** as data storage via **Mongoose** for users profile and products information
- Ensured high-security password hashing and authentication token generation on the server side by integrating **JWT**

Philadelphia COVID-19 Data & Property Values Interface | *Java, JUnit*

Mar - Apr 2022

- Developed a **Java** application that parses and analyzes data sets from OpenDataPhilly, regarding COVID-19 confirmed cases, hospitalizations, vaccinations, and deaths, as well as property values of houses based on zip code in Philadelphia
- Utilized the **N-tier architecture** to identify and separate the application into functionally independent modules for data reading/parsing, data processing, and user interface
- Implemented **TXT/CSV/JSON** reader to read files with **581326** data rows efficiently, and applied **memoization** technique for efficient method calls
- Employed the **Singleton and Strategy design pattern** to log user activities and perform the features of computing property values

Experience

SmithGroup

Detroit, MI

Architect

Mar 2020 – Present

- Coordinate in computational design by developing and deploying parametric models on Autodesk's cloud platform
- Develop visual programming scrips in Dynamo, Grasshopper and Python to customize building information workflows
- Utilize BIM elements and core APIs in Autodesk Revit to create add-ins/plugin-ins

Lyman Davidson Dooley

Atlanta, GA

Production Designer

Aug. 2019 – Mar 2020

- Evaluated impact of design decision by visualizing multidimensional data and using machine learning algorithm
- Collaborated with designers and engineers for user experience design