Shi Zhang

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EDUCATION

Northeastern University, Seattle, WA   Jan 2023 - Dec 2025
Master of Science in Computer Science - GPA: 4.0/4.0
Related courses: Data Structures and Algorithms, Object-Oriented Design

University of Pennsylvania, Philadelphia, PA   Aug 2018 - Dec 2019
Master of Science in Design - GPA: 3.8/4.0

Rensselaer Polytechnic Institute, Troy, NY   Aug 2013 - May 2018
Bachelor of Architecture - GPA: 3.5/4.0

TECHNICAL SKILLS

- Programming Languages: Java, Python, Kotlin, C++, JavaScript, TypeScript.
- Tools: VSCode, PyCharm, Eclipse, IntelliJ IDEA, Android Studio, Oracle VM Virtual Box.
- Frameworks: Node.js, Next.js, React.js, Elastic, RESTful Web Service, Java Spring Boot, Git.

WORK EXPERIENCE

Ballinger, Philadelphia, PA - Building Information Modeling Designer   Feb 2020 - Nov 2022
- Managed project documentation across SD, DD, and CD phases for a 1.6 million sq. ft. hospital project.
- Delivered monthly progress presentations to the entire office and provided weekly internal updates.
- Streamlined data workflow by optimizing the framework between Excel and Revit.
- Cooperated with Mechanical, Electrical, and Plumbing teams for monthly value engineering initiatives.

RELEVANT PROJECT

Fun Facts Share Website, Full-Stack Web App (Individual Project: **Live Demo**)   Feb 2023
- Engineered a web app for sharing and voting on fun facts with tags.
- Crafted web structure with HTML and styled using CSS, and enabled front-end to back-end communication via JavaScript and React.
- Leveraged Supabase for online database and API management for up to 1,000 entries capacity for quick display.

StayStocked, Android Mobile App (Group Project: **Video Demo**)   APR 2023
- Devised a user-friendly app for tracking grocery inventory, and contributed to app wire-frame design, iterations, with a successful presentation to 140+ audience members.
- Employed recycler view for smooth scrolling and organized product display layout, and managed user-selected grocery items in a local list and controlled display via tooltip.

Earthquake Watch App, Full-Stack Web App (Individual Project: **Live Demo**)   May 2023
- Created a web app to search earthquakes based on magnitude, location, and time.
- Established a Node.js server with Express and deployed on Elastic Cloud, and connected the server securely to Elastic Cloud and configured Elasticsearch for data processing.
- Developed client side using React, and fetched API data through Node.js server for Elasticsearch.

VIRTUAL EXPERIENCE & CERTIFICATIONS

[Hewlett Packard] Software Engineering Virtual Experience Program   July 2023
- Proposed and built a RESTful Web Service using Java Spring Boot for an employee management system, implemented CRUD functions.

[Lyft, Inc.] Back-End Engineering Virtual Experience Program   June 2023
- Refactored existing software architecture, added new components for test-driven development for car maintenance check.