Katie Wang

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EDUCATION

Master of Computer and Information Technology, GPA: 3.71/4.00 — 2020 - 2022
University of Pennsylvania, Philadelphia, PA
Highlights: Introduction to Software Development, Intro to Computer Systems, Data Structures & Software Design, Computer Systems Programming, Algorithms & Computation, DataBases, Software Analysis, Statistics for Data Science.

Master of Landscape Architecture, University of Pennsylvania, Philadelphia, PA — 2011 - 2013
Bachelor of Architecture, Tongji University, Shanghai, China — 2006 - 2011

SKILLS

- Language: Java, Python, C/C++, SQL, HTML, Javascript, CSS
- Database: MySQL, Redis, Firebase
- Tools and Framework: Spring Boot, MyBatis, RESTful API, RocketMQ, Sentinel, Junit, React, JSON, XML, Maven, JMeter, Node.js, Docker, Git, IntelliJ
- Operating System: Mac OS, Linux, Windows

PROJECTS

Flash Sale Application — May 2021 - July 2021

- Developed a full stack high concurrency flash sale shopping system with RESTful web service, SpringBoot, MySQL, Redis, Message Queue, Sentinel and MyBatis.
- Integrated Redis to implement caching for inventory check, reducing pressure on databases.
- Implemented asynchronous order service via RocketMQ, decoupling the web server and MySQL.
- Utilized Sentinel to improve scalability and handle high volume HTTP requests and responses.
- Conducted performance tests with Apache JMeter, capable of handling 10,000 qps.

Online Food Ordering System — Mar. 2021 - Apr. 2021

- Developed a web application of a burger order system for users to choose and purchase via React.
- Leveraged Axios to send HTTP requests to Firebase.
- Utilized JSX, props, state and life cycle components of React for data exchange and error handling.
- Implemented dynamic routing for the application using React Router.

Static Analyzer — Nov. 2020 - Dec. 2020

- Built a static analyzer that detects potential divide-by-zero errors in C programs at compile-time.
- Implemented chaotic iteration algorithm and instructions interpretation for dataflow analysis in LLVM framework.
- Instrumented the LLVM analysis pass that handles pointer aliasing and dynamically allocated memory.

WORK EXPERIENCE

Architectural Designer | SBArchitects, San Francisco, CA — Oct. 2013 - Mar. 2020

- Initialized in-house repository in Building Information Management system, collected and managed project data.
- Led multiple computer-aided hospitality architectural projects from design to construction.
- Selected projects: Jardinana Apartment II, Spain (38 unit residential community); Dr. Wilkinson Hotel Renovation, Calistoga, CA (50 key hotel); Park Hyatt Resort, Los Cabo (206 key hotel).
- Oversaw building regulation compliance analysis, accessibility conformity assessment.
- Evaluated technical drawings from multiple consultants, provided feedback, consolidated into design at milestones.

AWARDS

Critic of Journal of Yancheng Institute of Technology (Nature and Science) — Dec. 2011 - Dec. 2014
PennDesign Scholarship, University of Pennsylvania, Philadelphia, PA — Sep. 2011 - May 2013
College Award Scholarship, awarded to top 3% graduation students, Tongji University, Shanghai — May 2011
2nd Place Prize, 2009 Shanghai College Student Computer Skills Competition — Mar. 2009