Yuxuan Xiong

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TECHNICAL SKILLS

Programming	Java, Python, JavaScript, Dart, HTML/CSS, Node.js, C/C++
Frameworks / Libraries	Django, Vue.js, React, Express.js, Flutter, Spring
Databases	MySQL, MongoDB, Neo4j, Redis
Cloud / Big Data	AWS, Netlify, Heroku, Spark

WORK EXPERIENCE

Geward, *Software Engineering Intern* | Philadelphia   Jun 2023 - Oct 2023
- Spearheaded the frontend development of the B2C food ordering platform using Flutter and Material UI, resulting in a 20% uptick in restaurant partnerships within six months.
- Designed the business-side restaurant dashboard [mobile app](#) that allows restaurant owners to modify their menu, handle dine-in/pick-up orders and organize their open hours
- Added dynamic pricing, letting clients to identify and update prices based on the most popular items, driving revenue.
- Expanded APIs to support new functionality including pricing discounts and user comments.
- Partnered with Product team members to conduct usability testing, based on customer feedback made design improvements resulting in a 40% increase in user engagement and a 15% boost in overall satisfaction rates.

HDR, *Computational Design Consultant* | Berkeley   Jun 2021 - Aug 2021
- Developed a Python generative design tool, automating urban massing optimization with urban network and FAR data.
- Restructured urban design workflow and designed the initial internal CAD software manual for urban planners.

EDUCATION

University of Pennsylvania, *Philadelphia*   Sep 2022 - May 2024
Master of Computer and Information Technology, GPA: 4.00/4.00

University of Pennsylvania, *Philadelphia*   Sep 2019 - May 2022
Master of Architecture, GPA: 3.97/4.00

University of Edinburgh, *Edinburgh*   Sep 2014 - Jun 2018
Bachelor of Architecture, Grade: First-class Honors

PROGRAMMING PROJECTS

Disney World Planner - Optimize your trip for preferred climate, favorite ride availability, and flights   Oct - Dec 2023
- Developed an interactive itinerary recommendation system using React and Material UI.
- Engineered a backend with ExpressJS and RESTful APIs for Disney World rides, achieving a tailored user experience by dynamically querying data based on preferences.
- Deployed a MySQL database on AWS, enhanced with NumPy and Pandas for data analysis of over 6 million data points, organizing ride and climate data to support itinerary planning.
- Reduced processing time by 90% through SQL index and query optimization.

Tennis Reservation System - An application allowing students and staff to book tennis courts   May - Aug 2023
- Developed a Spring Boot backend with RESTful API endpoints for user and court management.
- Established robust authentication and authorization by leveraging Spring Security.
- Crafted an intuitive frontend with React and Material UI, featuring a DevExpress scheduler for court reservations.
- Optimized the reservation system with real-time court availability updates and automated confirmation emails.