

Yiqun (Brian) Xu

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Intro: I am a driven full-stack web developer who is dedicated to simplifying the communication between individuals and products through reducing layers of interaction. I have experience in designing and developing the user interfaces that apply the accessibility to scheduling models, learning materials, and even streamline operations within the restaurant industry. I am currently seeking an opportunity that can leverage my experience in web development and software engineering to deliver user-friendly and responsive UX/UI experiences along with creating scalable, reliable, and secure backend systems. My commitment to professional growth is unwavering, as I strive to stay up-to-date with the latest industry trends and best practices.

EDUCATION

Lehigh University, Bethlehem, PA

Expected: May 2023

Bachelor of Science in Computer Science and Engineering

GPA: 3.2/4.0

SKILLS

Programming languages: Proficient in Java, Python, HTML CSS & Javascript, C&C++, Dart, SQL, Pug, and R.

Tools: Git, Postman, Google Cloud Platform, Linux, MongoDB, Heroku, AWS, Tableau, Matlab, and Firebase

Frameworks and other technologies: React.js, Node.js, Spark, Django, and Agile development methodologies

EXPERIENCE

EatifyPos; <https://github.com/yiqun12/eatifyPos>

San Francisco, CA

Founder; Self-employed; Seeking to bring EatifyPos to commercial viability.

Dec 2022 - present

- Sole founder of EatifyPos, a web-based point-of-sale platform that offers online ordering services for dine-in and takeout orders, with additional restaurant management features. This platform enables customers to browse menus, place orders, and pay securely online, while streamlining the ordering, payment, and kitchen processes for business owners. Real-time messaging, email confirmations, and customization options are provided, making the platform efficient and effective.
- The platform is responsive on PC and compatible with 95% of mobile devices. It is also capable of seamlessly sending order information to kitchen thermal printers in real-time. Other key features of my platform include: the processing of verbal orders, remote control for the cash drawer, management of point-of-sale (POS) terminals, and the provision of summaries of revenue, tips, and taxes. Demo: <https://eatify-22231.web.app>

Lehigh University

Bethlehem, PA

Research Programmer; PI, Dominic DiFranzo, Department of Computer Science and Engineering

Aug 2022 - present

- The Deception Awareness and Resilience Training (DART) platform has received [\\$5 million](#) in funding from the NSF to support the mission of promoting awareness of the risks and scams associated with social media. As part of this effort, I designed and developed the whole Explore section within the [DART Learn module](#) to provide older adults with examples on how to recognize malicious internet trolls and protect themselves from online deception.

Research Tool Developer; PI, Karmel S. Shehadeh, Department of Industrial Systems and Engineering

Aug 2022 - present

- As part of the ongoing project is to develop a scheduling tool that utilizes PI's [Stochastic Optimization Approaches Model](#) to systematically and efficiently generate valid schedules.
- Developed a user-friendly interface for chief residents overseeing scheduling at a major academic hospital. The interface allows them to input critical information such as resident availability, rotation requirements, and desired workload distribution. With this information, the interface generates a schedule that meets all requirements while minimizing workload and ensuring appropriate medical coverage.

Research Assistant; PI, Javad Khazaei, Department of Electrical and Computer engineering

May 2022 - Aug 2022

- Collaborated in a project titled "[Contingency Analysis and Optimal Microgrid Integration to Quakertown Grid in 2022-2023](#)" that secured a budget of \$99,000 to integrate a microgrid into the Quakertown grid to improve its resilience and stability.
- Created a real-time simulation (hardware-in-the-loop) that could replicate the current and voltage signals of the Quakertown electrical grid, identifying potential areas of vulnerability in the grid.
- Performed a contingency analysis to evaluate how the Quakertown electric department would be affected by recurring flash flood damage, investigating potential risks and enabled our team to devise strategies for mitigating them.