

JIMMY WU

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EDUCATION

University at Buffalo

May 2025

Bachelor of Science in Computer Science

Buffalo, NY

- **Relevant Coursework:** Machine Learning, Modern Computer Systems Algorithms, Modern Networking, Web Development, Computer Security, Algorithms and Complexity, Systems Programming, Data Structures, and Computer Organization
- **Awards:** Dean's List [Fall 2022, Spring 2023, Fall 2023]

EXPERIENCE

SkyIT Services — Subsidiary of GBCS Group

May 2024 – August 2024

BackEnd Developer Intern

Remote

- Led backend development as team lead, managing **10+** key tasks and collaborating with frontend teams to ensure timely project completion.
- Worked closely with security teams to resolve API vulnerabilities and implemented multi-factor authentication, enhancing system security by **30%**.
- Integrated a fleet management system for clients, reducing operational inefficiencies by **25%**, and developed a testing application that improved API and data validation speed by **40%**.

PROJECTS

Bulls Parking Finder | *React.js, Tailwind CSS, PHP, MySQL*

- Developed and deployed a real-time parking availability web app with PHP endpoints, hosted on an Apache server, serving **10,000+** students to find available parking spots across campus.
- Led a team of **5**, managing tasks in Trello, overseeing the GitHub workflow, and resolving conflicts to ensure **100%** seamless integration during development.
- Implemented a survey feature allowing students to submit real-time parking data and opt-in for notifications on full lots, improving accuracy by **30%** within two months.

Text Chat Application | *C, C++*

- Designed and implemented a TCP-based chat application, managing **50+** simultaneous connections and ensuring reliable communication across distributed systems.
- Developed network communication protocols for real-time data exchange across **5** client systems, achieving **99.9%** uptime with reliable command processing.
- Enhanced server responsiveness and client management, improving message routing and dynamic connection handling, resulting in a **20%** increase in server throughput.

FILO 🌀 | *React.js, Python, Flask, MongoDB*

- Collaborated with a team of **5** to develop FILO, achieving a **20%** increase in user sign-up efficiency, streamlined post creation, and chat room establishment functionalities.
- Integrated WebSockets and Socket.io, cutting message latency by **40%** and increasing user engagement by **35%**, integrating OAuth2.0 with Gmail API for **45%** fewer fraudulent sign-ups, and adding polling for **25%** more interaction.
- Successfully managed the deployment process, ensuring a **60%** reduction in downtime during updates, thereby enhancing user accessibility and demonstrating adept project management skills and technical proficiency.

FisionTech 🌀 | *Python, HTML, JavaScript, CSS, Plotly, Bottle.py*

- Collaborated with a team of 3 to develop FisionTech, achieving a **40%** improvement in user financial management by collecting and utilizing user inputted data on weekly wages, annual income, and savings to generate budgeting graphs.
- Implemented a pie chart and a line graph based on the 50/30/20 rule, resulting in a **50%** increase in user understanding and visualization of needs, wants, and spending patterns.
- Successfully deployed the web application with a domain name, utilizing JSON and AJAX to transmit user data to the server and generate budgeting graphs, enhancing user accessibility and interaction by **60%**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, PHP, C, Scala, MIPS Assembly, Verilog

Technologies: React.js, Next.js, TailwindCSS, Node.js, MongoDB, Flask, Django, MySQL

Tools: Postman, MySQL Workbench, Microsoft Azure

Concepts: Websockets, OAuth2.0, AJAX, JSON, Networking, OS, AI, ML, Neural Networks, APIs, Data Visualization.