JIMMY WU

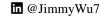📞 (646) 707-8916 ✉ jimmywu3201@gmail.com in @JimmyWu7 ⌂ @JimmyWu7 🌐 Portfolio

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
- Led backend development as team lead, managing **10+** key tasks and collaborating with frontend teams to ensure timely project completion.
- Developed and maintained RESTful APIs using Django, improving backend efficiency by **20%** and enabling seamless data exchange between services.
- Worked closely with security teams to resolve API vulnerabilities and implemented multi-factor authentication, enhancing system security by **30%**.

PROJECTS

Bulls Parking Finder ↗ | *React, 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.

NBA MVP Predictor ↗ | *Jupyter Notebook, Python, Beautiful Soup, Pandas, Scikit-learn*
- Designed and developed a supervised machine learning model using Ridge Regression and Random Forest to predict NBA MVP candidates based on over **30 years** of historical player performance data.
- Utilized Beautiful Soup and Pandas to scrape and preprocess data from **500+** NBA players, ensuring high-quality statistics for model predictions.
- Created a visualization dashboard with Matplotlib and Plotly, displaying MVP prediction trends and season-over-season analysis for **25+** seasons.

FILO ↗ | *React, 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*
- 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, Ocaml, C, C++, Scala, MIPS Assembly, Verilog
Technologies: React, React Native, Next.js, HTML, TailwindCSS, CSS, Node.js, MongoDB, Flask, Django, MySQL, Pandas, NumPy, PyTorch, Keras, Tensorflow, Scikit-learn
Tools: Visual Studio Code, Docker, GitHub, Postman, MySQL Workbench, Microsoft Azure, Slack, Expo Go
Concepts: Websockets, OAuth2.0, AJAX, JSON, Networking, Caching, OS, Artificial Intelligence, Machine Learning, Neural Networks, Reinforcement Learning, APIs, UX/UI Design, Data Visualization, Encryption