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

Sparework Community Services Inc.　April 2025 – July 2025
Full Stack Developer　*Remote*
- Developed a real-time communication app with one-on-one and group calling features, ensuring cross-platform functionality.
- Integrated third-party APIs for voice communication and payment processing, enhancing app performance and user experience accross mobile platforms.
- Designed and implemented user-facing features, translating product requirements into technical solutions, including UI and backend development.

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.
- 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 integrated 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 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*
- Collabrated with a team of 5 to build FILO, a full-stack social platform, leading to a measurable improvement in new-user sign-up efficiency.
- Integrated WebSockets and Socket.io to enable real-time messaging, reducing message latency by 40% and significantly improving overall chat responsiveness.
- Managed end-to-end deployment workflows, achieving a 60% reduction in update-related downtime to ensure consistent platform availability.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Dart, 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, Android Studio, Docker, GitHub, Postman, MySQL Workbench, Microsoft Azure, Slack, Expo Go
Concepts: Websockets, OAuth2.0, AJAX, JSON, Networking, Firewall, DNS, Caching, OS, Artificial Intelligence, Machine Learning, Neural Networks, Reinforcement Learning, APIs, UX/UI Design, Data Visualization, Encryption