Yicheng (Dennis) Wang

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EDUCATION

Northeastern University — Boston, MA
Bachelor of Science in Computer Science + Business Administration — *Sept. 2023 – June 2027*

EXPERIENCE

Machine Learning Engineer — Oct. 2023
IBM Z Datathon 2023 — *London, UK*
- Led and managed a cross-functional team of 6 members in a 24-hour datathon
- Provided guidance and motivation to team members, encouraging creativity and problem-solving
- Developed a machine learning model that uses TensorFlow to analyze eye-tracking data to predict for autism in young children

Engineer & Research Fellow — July 2022
University of California, Irvine — *Irvine, CA*
- Contributed to research in assistive technology, specifically focused on designing and developing a hands-free mouse for individuals with disabilities.
- Awarded the Certificate of Research & Innovation Leadership for completing the BEAM program requirements, demonstrating outstanding research, innovation, and entrepreneurship skills.
- Utilized programming expertise to code an Arduino board through the Arduino IDE as well as writing a MATLAB script for the mouse headset
- Used the Fusion 360 software to design a user-friendly and ergonomic device for 3D printing
- Conducted a live demonstration of the product to UCI professors and fellow research peers

Programmer & Builder — June 2021 – May 2022
VEX Robotics — *Irvine, CA*
- Played a pivotal role as a programmer and builder for VEX team 2496R, contributing to our performance at the VEX Worlds competition.
- Optimized a critical robot autonomous turn function to under 20 lines in an established codebase via Git
- Volunteered at school district hosted events, leveraging robotics expertise to engage and inspire the community while giving back through knowledge sharing and mentorship

PROJECTS

EquilibriNews | *Nextjs, JavaScript, React, Puppeteer* — Feb. 2022 – March 2023
- Developed a website to scrape news from major publishers and displayed in a way that reduced political bias
- Implemented Google's Puppeteer API to scrape data from news websites
- Consulted UPenn Master's Graduate Melissa Amaya through the Polygence platform for technical advice

Uber Data Dashboard | *Python, Google Cloud Platform, BigQuery, Mage, Looker Studio* — July 2023
- Leveraged Python for data preprocessing, transformation, and formatting, ensuring data quality for subsequent analysis
- Used Google Cloud Storage to host files, Google Compute Engine and Mage as data pipeline to the Cloud
- Utilized Google BigQuery for data processing, and Google Looker Studio to create a dashboard

SigmaChat | *HTML, CSS, JavaScript, Firebase* — July 2023
- Developed SigmaChat, a web chatroom leveraging Firebase and Google OAuth for seamless user authentication and data storage
- Utilized HTML, CSS, and JavaScript to create a user-friendly interface with dynamic content & responsive design
- Implemented Firebase Realtime Database to store and retrieve user-generated data, ensuring real-time updates and data synchronization.
- Hosted SigmaChat on Vercel for efficient deployment, continuous integration, and easy scalability

TECHNICAL SKILLS

Front-end: HTML/CSS, JavaScript, TypeScript, React, Next.js, Material-UI, Bootstrap
Back-end: Java, Python, Node.js, express, SQL, Firebase, MongoDB
Developer Tools: Git, VS Code, npm, Eclipse, Vercel, Netlify, Google Cloud Platform, Amazon Web Services
Data Science + Visualization: pandas, NumPy, MATLAB, Tableau, Puppeteer, streamlit, matplotlib, Mage