

# Jeremy Xiang

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## EDUCATION

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**University of Wisconsin-Madison | Madison, WI**

**May 2028**

*B.S. in Computer Science*

**Relevant Coursework:** Programming II & III, Discrete Mathematics, Intro to Computer Engineering, Machine Organization & Programming, Introduction to Algorithms, Elem Matrix & Linear Algebra, Principles of Microeconomics, Intermediate Microeconomic Theory, Statistics: Measurement in Economics, Intermediate Macroeconomic Theory

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, Java, HTML5, CSS3, C, C++, JSON, LaTeX

**Frameworks & Libraries:** Node.js, Express, pandas, matplotlib, React (basics), Flexbox, CSS Grid

**Web Development:** Responsive design, CSS animations & transitions, SVG graphics, DOM manipulation, Intersection Observer API, Web Storage API, Google Fonts, accessibility (prefers-reduced-motion, semantic HTML)

**Tools & Platforms:** Git, GitHub, GitHub Pages, Vercel, Firebase, Jupyter, VS Code, Android Studio, Figma

**Spoken Languages:** English, Mandarin Chinese, Spanish

## RELEVANT EXPERIENCE

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**Inspirit AI | Remote**

**Aug. 2023 – Jan. 2024**

*Student Ambassador & Researcher*

- Collaborated with Professor Clayton Greenberg (UPenn) to co-author a research paper on word reading time prediction and the effects of linguistic factors on comprehension speed
- Built machine learning models for stroke risk prediction; developed an interactive web tool allowing users to visualize their risk based on historical data
- Presented research on NLP and language processing applied to stock market analysis

**Intel Corporation | San Jose, CA**

**May 2022 – Aug. 2022**

*Engineering Shadow*

- Contributed to a published research paper on chip PPA (Performance, Power, Area) optimization, providing feedback on presentation and technical content
- Shadowed chip design engineers observing real-world performance and power trade-off analysis
- Developed an algorithm to automate subset data selection from large datasets, improving team efficiency

## PROJECTS

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**Personal Portfolio Website | Self-directed**

**2026**

- Designed and built a minimalist single-page portfolio from scratch using HTML, CSS, and vanilla JavaScript; no frameworks or templates
- Implemented dark/light theme toggle with persistence via the Web Storage API, a flash-free theme preload script, and smooth CSS transitions across all color variables
- Crafted custom CSS animations including a domain-expansion intro loader, drifting blurred-gradient ambient background, and scroll-triggered reveals using the Intersection Observer API
- Ensured mobile responsiveness with Flexbox, CSS Grid, and a fluid max-width layout; respected accessibility preferences via *prefers-reduced-motion* media query

**CODAworx Product Strategy | PMC Case Competition**

**2026**

- Identified a key legal barrier blocking government commissioners from trialing CODAworx (Percent-for-Art ordinances require 3–7 jurors; free tier capped at 1); proposed unlocking multi-juror free trials as the highest-impact solution via RICE scoring framework (score: 108 vs. next-best 32)
- Built and deployed a live companion website using Vercel to present the case competition findings (codafive.vercel.app)

**Stroke Prediction Web App | Inspirit AI**

**2023**

- Trained classification models on health data to predict stroke likelihood; built an interactive front-end so users could input personal metrics and visualize predicted risk

## LEADERSHIP & AWARDS

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**Boy Scouts of America | San Jose, CA**

**Jan. 2018 – Aug. 2023**

*Senior Patrol Leader (Eagle Scout)*

- Led troop activities and large-scale events as camp counselor; mentored younger scouts and coordinated with recreation staff to design inclusive programming
- Developed and enforced safety protocols; administered first aid and documented incidents per BSA guidelines
- Recipient of the BSA Heroism Award