Nuo Wen Lei

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EDUCATION

Brown University, *B.S in Computer Science*, 4.00/4.00 GPA   Providence, RI | **Expected Graduation May 2026**
Relevant Courses: Deep Learning, Computer Systems, Software Engineering, Computer Vision, Honors Statistical Inference, Data Engineering, Machine Learning, Data Science, Multivariable Calculus, Linear Algebra, Discrete Math, Functional Programming
Organizations: Brown Entrepreneurship Program Tech Team, Brown Machine Intelligence Community (B-MIC)
Certificates: Advanced Data Science with IBM, Machine Learning Engineering for Production (MLOps)

SOFTWARE EXPERIENCE

Microsoft, *Incoming Software Engineering Intern*   Redmond, WA | Jun 2024 – Aug 2024
Brown University, *Undergraduate Teaching Assistant*   Providence, RI | Jan 2024 – May 2024
- Improved Computer Vision conceptual questions about image feature extraction for 130+ students
- Implemented and deployed partial credit system on autograding server using Python, which will be used in all current and future iterations of the course
- Answered or assisted on 40+ course forum questions about programming assignments and conceptual questions
- Responded to and fixed on-call autograding server issues with Python
- Held weekly office hours for questions on course material, averaging 10+ assisted students per session

QuantGuide, *Founding Engineer*   Virtual | May 2023 – Nov 2023
- Deployed website frontend makeover using React.js with Next.js, directly impacting the online experience of 7000+ users
- Collaborated with content and engineering team members in an agile environment with Kanban to push this startup into the Y Combinator accelerator program
- Integrated Firebase to respond to all content queries and record all user interactions with the website, including profile changes, likes and dislikes, and question notes, which sums up to 1M+ reads and writes per day
- Developed and delivered new features such as an auto-generating mental math game that has been played for 16000+ times

Numerai, *Software Engineer Intern*   San Francisco, CA | Jun 2023 – Aug 2023
- Deployed a machine learning model that has a 22% higher Sharpe in backtest than the previous model into production with more than $100 million in Assets Under Management
- Backtested and documented 200+ ensemble model configurations in AWS Sagemaker using Python to optimize for Sharpe Ratio while minimizing Churn Rate, Market Exposures, and other risk metrics
- Proposed and validated a new metric with Pandas Python library for 2000+ users to measure the uniqueness of their alpha submissions based on correlation to other users

LEADERSHIP EXPERIENCE

Brown Entrepreneurship Program - Tech Team, *Co-Lead*   Providence, RI | Oct 2022 – Current
- Designed responsive landing and profile pages with React.js and integrated Firebase database and storage for the Bruno Ventures project, which aims to connect current students with startup opportunities from alumni
- Met and discussed with 5 investors and stakeholders for the Bruno Ventures project to understand user stories and needs
- Led tech consultancy team that evaluates the required tech stack for student startups
- Initiated landing page team that designs, implements, and deploys custom pre-product landing pages for student startups
- Organized and led weekly team meetings with all project teams

PROJECT EXPERIENCE

Hander - Online Second-hand Item Marketplace, *Tech Lead*
- Designed web and mobile system with React.js, Next.js, React-Native, Expo, and Firebase
- Conducted user-testing interviews to better understand the pain points of our target audience
- Attended venture capital networking meetings with 50+ startup founders to present our product
- Contributed to the codebase with 200+ commits and 40000+ lines of code as the main developer
- Deployed web project on hander.us using Vercel

SKILLS & INTERESTS

Technical Skills: Python, Javascript, Typescript, R, Java, SQL, HTML/CSS
Development Tools: GitHub, Docker, Amazon Web Services (AWS)
Language: Bilingual proficiency in Mandarin Chinese and English
Interests: Tennis, Basketball, Squash, Anime, Minecraft