**Yushun Chen**

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**University of Wisconsin - Madison September 2019 - August 2022**

*Bachelor of Science in Computer Science, Statistics, and Applied Math*

GPA: 3.94/4.00 (Dean’s List for consecutive four semesters)

College of Letters & Science Honors Program (offered to UW-Madison’s most talented and engaged undergraduates and requires 24-credit Honors coursework from humanities to social and natural sciences)

**Charlotte Catholic High School August 2016 - May 2019**

GPA: 4.5/4.8 (First Honors for consecutive six semesters)

**EXPERIENCE**

**Connected and Automated Vehicles Systems Group | Undergraduate Research Assistant**

*Supervisor: Dr. Bin Ran*  **September 2020 - February 2021**

* The project focused on mandatory lane change behaviors of CAVs from a dedicated lane, which prioritizes lane changing decisions near the diverging zone and optimizes total system travel time
* Conducted literature reviews for CAVH related algorithms, contributed to group’s [publication](https://arxiv.org/pdf/2104.11590.pdf) by conducting literature reviews for 20+ CAVH papers, giving multiple presentations, and implementing and testing CAVH systems of manual and automated vehicles including car following models, lane changing decisions, cost functions, platooning models, and other simulations

**Xunxiang Organization | Technology Team Director May 2020 - Present**

*Online, a non-profit organization providing information and mentorship for international students*

* Lead the tech team of three people to develop and implement solutions that empower the operation and growth of the organization, resulting in 1000% increase in web traffic within two months and 20% increase in net promoter score
* Plan and execute monthly sprints based on organizational priorities and following Agile-Scrum framework; Mentored two junior developers in the technology team by supporting their personal growth
* Collaborated with designers and product managers to develop full-stack web applications that enable users to exchange and share information; Explored and developed some plugins for internal use by Node.js, Express.js, and MongoDB. Developing a knowledge base website using Vue.js and SpringBoot

**PointNinetyNine |** [**https://point99.app/**](https://point99.app/) **December 2020–Present**

* Led the team of four engineers to produce the current MVP version of the full-stack application
* Focused on and implemented user registration and user profile portions of the app; Integrated and customized Ant Design in React.js to accomplish designed graphics and user flow; Implemented GraphQL with Django through Graphene-Django and designed GraphQL queries and mutations to optimize CRUD operations
* Personalized user experiences based on their identity, interested industry/topics, and followed users
* Optimized code base regularly through organizing code refactor, code review, and pair programming

**Xunxiang Official Website |** [**https://xunxiang.org/**](https://xunxiang.org/) **September 2020–January 2021**

* Developed the official website for Xunxiang using HTML/CSS/JS, Bootstrap, and Material UI.
* Measured website loading time from locations worldwide and conducted statistical experiments to test significant factors that affect it; optimized website loading speed accordingly by using CDN, minimizing HTTP requests, implementing asynchronous loading, and testing different deployment methods
* Implemented website analytical services using Google Analytics; Visualized and monitored metrics including website traffic, user geography, user interaction with the website and made improvements based on analysis

**INTERNSHIP**

**Dell Technologies | Software Engineering Intern \*May 2022 – August 2022**

*Incoming intern at Dell Technologies in its headquarters in Round Rock, TX*

**China Construction Bank Corporation-Three Gorges Branch | Intern June 2018 - July 2018**

* Guided about more than 500 customers to handle banking businesses including opening accounts, transferring and depositing money, corporate banking service, loan application, and living expenses payments
* Demonstrated and taught clients who are from various age groups and have different physical abilities to navigate e-banking software and systems; reflected from such user experiences and provided helpful suggestions regarding accessibility for the bank as a software developer; learned about big data management

**EXTRACURRICULAR ACTIVITIES**

**Google CS Research Mentorship Program | Mentee September 2021 – December 2021**

* Discussed research idea/topics/problems, industry practices, and personal growth of researchers in the fields of software engineering (SE) and human-computer interaction (HCI) at Google
* Learned about the research process including defining a problem, conducting experiments, and publishing papers in SE and HCI by communicated with the Google mentor, researchers, and peer students in related fields through pod sessions, workshops, and 1-on-1 meetings

**McBurney Disability Resource Center | Note-taker September 2019 – December 2020**

*Worked as a note-taker for the disability resource center*

* Provide comprehensive and well-organized notes of lectures, discussions, and labs for the center to help those who need accommodations with the mind of accessibility as a software developer

**University Housing Dining & Culinary Services | Team Member September 2019 - November 2019**

*Worked at Liz’s Market which is an on-campus dining hall*

* Provided excellent dining and culinary services such as preparing and serving food, cleaning, and operating cash registers and POS systems; helped other new members to fit into the team

**Web Development Club, Undergraduate Statistics Club September 2019**

**SELECTED HONORS AND AWARDS**

UW-Madison Undergraduate Scholarship for Summer Study May 2020/2021

National AP Scholar & AP Scholar with Distinction May 2019

Academic Achievement Award: Class of 2019, from the Department of Physics at CCHS May 2019

National Honor Society April 2018

American Mathematics Competition 2018: Highest score holder at CCHS December 2018

Mu Alpha Theta (National Math Honor Society) April 2018

**SKILLS**

**Programming Language**: proficient in Java, R, HTML/CSS, JavaScript, TypeScript, Python, C, SQL

**Framework**: React.js, Vue.js | GraphQL, Node.js, Express.js | Django, MongoDB

**Tool**: Ant Design, Bootstrap, Material UI, | Git, Visual Studio, IntelliJ, Vim, LaTeX | Heroku, DigitalOcean

**Coursera**: [JavaScript Bootcamp](https://www.udemy.com/certificate/UC-eacd5756-16c7-43f9-89ae-42ff8a83d89b/), [Web Development Bootcamp](https://www.udemy.com/certificate/UC-861febbf-3320-44fe-9627-85ed56217c14/), [Neural Networks and Deep Learning](https://www.coursera.org/account/accomplishments/certificate/Z3F6JYVYTHLN)

**Hobby**: Chinese Calligraphy, drum kit