

Boyang Zhou

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Education

University of Washington, Seattle, WA

Anticipated 6/2024

Human-centered Design & Engineering(intended), Entrepreneurship | GPA 3.98

Technical skills

Programming languages/platforms: Python, Java, JavaScript, SQL, HTML, React, R

Other: Figma, Prototyping, End-user research, Solidworks, Finance, Data analysis, Finite element analysis

Work experience

Committee member, *Student Technology Fee, University of Washington, Seattle, WA*

2/2022-Now

- Manage 9 million dollars of fund every year and support over 50 projects
- Evaluate funding requests for Tech-related projects or resources that will effectively benefit UW students
- Deploy and maintain the new official STF website with increased accessibility and transparency of the funding process
- Follow up historical fundings by measuring impact through surveys and interviews to give feedbacks on current progress and long-term development

Frontend developer, *China Telecom (Hong Xin), China*

7/2021-9/2021

- Successfully launched a new release of vehicle management system built on IoT and GPS for state-owned cars with friendly UX design and compatibility for small screens
- Debugged and commented JavaScript code for new version and contributed some new functions based on updated design criteria which created shortcuts for convoluted processes

School ambassador, *DJI tech inc. (education), China*

9/2020-6/2021

- Founded the Robomaster robotic competition school team and trained and taught 19 members courses about image recognition, embedded system, and kinematics
- Invited DJI engineers to host lectures and workshops on campus about trending topics and necessary technics
- Established solid communication between school and business and promoted DJI education resources on campus through various hands-on activities and seminars
- With the DJI education team, improved accessibility of extra-curriculum STEM education for high-schoolers by introducing a 3D robotic competition simulator for students who can not program on a real robot

Personal projects

Sole developer, *Futures trading website for senior citizen*

9/2020-4/2021

- Generate statistical models via python using market data of futures from external APIs and made further research on advanced methods to make price prediction using machine learning and historical data
- Introduced an account system using phone numbers and verification codes to simplify the signup process for new users
- Conducted interviews with the elderly in my community and other end-user research in order to design and build intuitive, interactive, user-friendly webpages with diagrams for the elderly and those with limited financial background

Co-developer, *Multi-sensor drone with auto-pilot and webcam*

3/2020-8/2021

- Using C# and python, achieved sensor calibration, fusion, and filter of gyro, GPS, barometer, and accelerometer on Arduino which improved the performance of basic inertial guidance algorithm by 15%
- Implemented a remote-control system using socket communication and increased the control distance to over 10km

Campus involvement

Team lead, *Hackathon (Winfo, Proseed)*

1/2022-present

Researcher on 12-inches airframe and digital solutions, *Society for advanced rocket and propulsion*

10/2021-present