

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