Youwen Wu

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in Youwen Wu
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Curriculum Vitæ

Education

2024 – 2028	**B.S. Mathematics**, *University of California, Santa Barbara*, 4.0/4.0	
2024 – 2028	**B.S. Computer Science**, *University of California, Santa Barbara*, 4.0/4.0	

Experience

4/2022 – 7/2023 **Systems programmer**, *UCSB Robotics Lab*,
Designed reproducible and purely functional hermetic build systems. Creating 3D simulacrums of laboratory experiments that are reproduced in real life, using C++, React, and Three.js.

09/2022 – 06/2024 **Artificial Intelligence Lead**, *FIRST Robotics Team 1280*,
Worked on autonomous decision making and path planning algorithms. Replaced the venerable *BozoAuto* autonomous subroutine with the *DeepBozo* autonomous suite. Designed a novel robot control dashboard with 3D visualization using Rust, Tauri, and Svelte.

Skills

Languages	Haskell, Rust, TypeScript, Bash, Python, Nu, Nix, C++.
Development	Tauri, React, Svelte, Linux.
Deployment	Nix and NixOS, Docker and NixOS based service deployment and system administration.
Other	Git and Mercurial Version Control.

Papers

Preprints

1/2024 **The DeepBozo Report**
eeXiv:10j4yyvp4so9.

3/2024 **eeXiv Whitepaper**
eeXiv:gc3lso8s9tyb

2/2024 **The LiDAR Whitepaper**
eeXiv:my8nruhlzjsq

Research Projects

5/2024 Split Cycle: A New Condorcet Consistent Voting Method Independent of Clones and Immune to Spoilers

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Languages

English	Native	Chinese	Fluent

Youwen Wu
December 31, 2024