Robert Zhang

Current Address:
12 Ross Ade Dr, Apt 10
West Lafayette, IN 47906

zhan4808@purdue.edu
(650) 833-9312

Permanent Address:
1680 W Hedding St
San Jose, CA 95126

EDUCATION

Purdue University, Engineering, West Lafayette, IN   *Aug 2023-Present*
Bachelor of Science in Electrical Engineering   **GPA: N/A**
Activities: Purdue Aerial Robotics Team (External Software Design), Purdue Solar Robotics (Embedded Systems), ML@Purdue Project Developer, TEDxPurdueU (Salons Officer), EPICS IMS App Developer, PIBA (Investment Banking Analyst), Hiking Club

PROFESSIONAL EXPERIENCE

IBM Almaden Research, Almaden, CA   *June 2021 — Aug 2021*
Student Intern
- Developed models for polymer synthesis, mass chromatography, implemented molecular featurization using SMILES data
- Stanford Research: Aided professors Xibing Che and Fan Yang in mice lung tissue treatment & extraction and lab analysis

Brown Pre-College Research, Providence, RI   *June 2022 — Aug 2022*
Student Researcher
- Learned experimental methods to monitor cell proliferation, gene sequencing analysis, and protein tracking and expression
- Project - *The Use of Artemisinin as an Effective Treatment in Protecting and Rescuing Sympathetic Neurons from Amyloid β1-42 Induced Apoptosis through Activation of the ERK1/2 pathway in the Pathogenesis of Alzheimer's Disease*

SOMI SOMI, Cupertino, CA   *February 2023 — April 2023*
Team Member / Assistant Manager
- Responsible for opening and closing, addressing to customers, making ice cream, taiyaki, ahboong, and more menu items
- Communicated with team members and manager to ensure smooth operation of store and teamwork

ACTIVITIES

Equal Access Robotics, Palo Alto, CA   *Aug 2020 — Present*
Co-Founder, VP of Outreach & Technology
- Outreached to over 1000 students throughout seven cycles of teaching, workshops, and summer camps.
- Communicated and organized classes for rural underprivileged students in Mali through ACFA (A Child for All)

Synopsys Championship Science Fair, California   *Aug 2021 — March* 2023
Researcher
- Projects on *Machine Learning Approaches to Diagnosing Skin Conditions in Diverse Skin Types ('21,'22), HUGS ('23)*
- Won 1st Award: Physical Science & Engineering (SCVSEF), 4th Award: Senior Computational Systems (CSEF)

Paradigm VEX VRC 315R, Cupertino, CA   *July 2019 — July 2022*
Build Co-Lead, Mentor
- World 1st Skills Rank ('21), VRC HS California Champions ('21), Division 2nd Seed VRC HS World Champs ('21)
- Volunteered and mentored at 315's annual Girl-Powered Google Robotics Workshop from 2020-2022.

Scouts Troop 57, Palo Alto, CA   *September 2012 — Present*
Eagle Scout, Mentor
- Patrol Leader, Scribe, First-Year Guide, Troop Webmaster, Camp Counselor
- Led project to design, craft, and distribute COVID-19 essential kits to homeless shelters around the Bay Area

Harker Jazz Band, San Jose, CA   *August 2016 — May 2022*
Saxophonist
- Played in Alto 1, Alto 2, Tenor 1, and Baritone roles
- Invited to and performed at the 2022 Disney Imagination Tour in Los Angeles

Palo Alto Stanford Aquatics, Palo Alto, CA   *August 2012 — May 2021*
Competitive Swimmer
- Junior-Olympic swimmer, led Harker Varsity Swim Team to CCS Team Qualification ('22), WBAL League Finalist ('22)

The Harker School, San Jose, CA   *Aug 2016 – May 2023*
- Activities: Research Club, Medical Club, Public Health Club, Investment Club, DECA, HOSA, Ethics in Tech
- 1480 PSAT, 1550 SAT, NMSQT Finalist
- Presidential Service Gold Award ('20-'23), AP Scholar with Distinction ('22-23)

INTERESTS & SKILLS

Collaboration & Mentorship   •   Machine Learning   •   Entrepreneurship   •   Outdoors   •   Music