Lauren Saue- Fletcher

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EDUCATION

Stanford University – Stanford, CA
B.S. in Mathematical and Computational Science *Expected 6/2022*
M.S. in Computer Science *Expected 6/2024*

TECHNICAL SKILLS

Proficient: Python, C++ , Data analysis, Debugging , Teaching   ***Knowledge of:*** Robotics, Java, BASH, APIs

TECHNICAL EXPERIENCE

Computer Science (CS106) Section Leader – *Undergraduate TA* – Stanford, CA   *1/2020- Present*
- Teach a weekly 12 student section on programming fundamentals including Python & C++
- Provide weekly office hours, walking students through effectively debugging their code
- Grade student assignments and exams; maintain weekly assignment review meetings with individual students
- Train section leaders in effective teaching and content mastery

Faithlife, Data Engineering Team – *Software Engineer Intern* – Bellingham, WA (remote)   *6/2021- 9/2021*
- Build and maintain services and infrastructure that provide company-wide data access and analysis
- Full stack development using MySQL, ASP.NET, C#, and JavaScript

Cardinal Tutors – *Tutor* – Stanford, CA   *9/2019- Present*
- Teach a middle school student programming fundamentals with Java and Python through project-based learning

Project Armor – *Tech/Data Science Intern* – Stanford, CA (remote)   *6/2020- 8/2020*
- Research and suggest ways to use machine learning algorithms to categorize facial emotions

Seeds of Change – *High School Leader*– Stanford, CA   *9/2019- 6/2020*
- Build leadership skills in a course for emerging STEM leaders to share with underrepresented high school students
- Lead meetings with 6 high school students to train the next generation of innovators, inspirers, influencers
- Conduct social science research by recording observations and providing surveys during high school meetings

Huberman Lab in Stanford Neurobiology Lab – *Research Assistant* – Stanford, CA   *1/2019- 11/2019*
- Applied statistical methods to human behavioral data to quantify performance after exposure to heights in VR game
- Used MATLAB and R creating a framework to clean, analyze, and present the data

Spokane Public School's Summer STEM camp – *Teacher* – Spokane, WA   *Summers 2016 – 2020*
- Taught Raspberry Pi, circuits, and 3D printing week-long programs to 25 middle and elementary students
- Created Autodesk Fusion 360 lessons for a middle school two-week 3D-Printing camp

Spark Central – *Technology Intern* – Spokane, WA   *6/2019- 9/2019*
- Served as a youth mentor for summer robotics program, teaching a coding camp and introducing technical tools
- Developed creative kits for learning binary, through making a necklace, and coding skills though playing with Legos

CO-CURRICULAR ACTIVITIES

Stanford Women in Computer Science – *Outreach Intern ('18)/ Board Member('20)* – Stanford, CA   *10/2018 – Present*
- Taught app development and VEX robotics workshops for 15 middle school students
- Serve on Inclusion board - manage programming related to diversity and inclusion topics

Girls Teaching Girls to Code– *Mentor* – Stanford, CA   *10/2018 – 6/2019*
- Helped teach 200 Bay Area high school girls Java programming basics over the course of a day
- Created lesson plans for and lead a specialized workshop on cybersecurity with a small team of 4

Stanford Women in Engineering OASES – *Mentor* – Stanford, CA   *10/2018 - 6/2019*
- Guided mentee through the creation of a cigar box guitar with lights that respond to sound through an Arduino

Stanford Student Space Initiative – *Head of Avionics for Callisto Project* **–** Stanford, CA   *9/2018- 6/2019*
- Created a controlled recovery system using sensors for a launched rocket to return to a target on the ground

FIRST Robotics – *CEO 2017-18, Co-Driver 2016-18, Head of Controls 2015-17* **–** Spokane*, WA*   *9/2012- 6/2018*
- Managed a FIRST Robotics team with a 50k budget that competed at the World Championship 2017 and 2018