TYLA JEFFS

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EDUCATION

BRIGHAM YOUNG UNIVERSITY HAWAII   Laie, HI
Bachelor of Computer Science   December 2023
Summa Cum Laude

SOFTWARE PROJECTS

FOOD FOREST GENERATOR   Apr 2024
- Designed and developed a full stack application using MERN to help gardeners create an optimized planting plan based on the regenerative agriculture principles of food forestry
- Built a custom RESTful API in Node.js using Postman & MongoDB Atlas for a cloud database with error handling, authentication, and encryption
- Connected API endpoints to mobile optimized React frontend where users can create an account, log in, and create planting plans based on their ecoregion and produce preferences. Utilizes the Google Maps API to streamline ecoregion selection

RE-EARTH TECH LEAD - ENACTUS USA   Aug 2021 - Apr 2023
- Led a technology team of 5 in wireframing, design, build-out, and content creation for a social venture website
- Developed partnerships that resulted in obtaining 12,365 acres of land in Mongolia and Kiribati
- Organized individuals from 15+ different countries to collaboratively innovate the agriculture industry
- Placed first in the ENACTUS National Entrepreneurship Competition and competed at the World Expo in Puerto Rico

PERSONAL WEBSITE - TYLAJEFFS.COM   Apr 2023
- Developed personal portfolio site using React.js, HTML, CSS (self-taught). Deployed with Netlify
- Used state changes to create a light and dark mode that connects to user device preferences
- Coded block portfolio with screenshots and demo videos of various projects demonstrating technical skills

WORK EXPERIENCE

COMPUTER SCIENCE TUTOR - Brigham Young Univeristy Hawaii   Laie, HI
- Tutored 197 students in Python, Java, C++, SQL, Android app development, and Assembly   Aug 2023 – Dec 2023
- Reviewed 10,800+ lines of code per week to ensure code quality and identify potential bugs
- Debugged student code through synchronous code reviews

TECHNOLOGY INTERN - AO2 Management   Remote
- Designed and coded 4 pages for company website   May 2022 – Dec 2022
- Developed spreadsheet automation reducing client monthly reports work from 4 hours to 25 minutes
- Led morning meetings helping build company culture and enhancing collaboration with 20 team members

DIGITAL MARKETING TEACHING ASSISTANT - Brigham Young University Hawaii   Laie, HI
- Mentored 13 students in web development   Aug 2021 – Apr 2022
- Taught 3 classes while professor was ill for 6 weeks
- Debugged and provided troubleshooting and site maintenance for 9 websites

SKILLS

Coding Languages: Java, C++, Python, C, HTML, CSS, PHP, React, Vue, Ruby, JavaScript, SQL, GoLang, Assembly, Google Apps Script, Blueprint Visual Scripting
Technologies and Frameworks: Ruby on Rails, MySQL, Docker, Postman AWS, Cloud9, Git, MongoDB, Express.js, Node.js, OAuth, RESTful API's, Unreal Engine, Visual Studio, Agile/Scrum, Software Development Life Cycle
Awards: 2nd place in the 2022 ICPC Hawaii programming contest, Hawaii Student Chapter - Association for Computing Machinery founding member