Rithi Vaithyanathan

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EDUCATION

University of Michigan – College of Engineering   Ann Arbor, MI
Bachelor of Science Engineering in Computer Science, GPA: 3.85/4.00   *Sept 2020 – May 2024*
- Relevant Courses: *Data Structures and Algorithms (EECS 281), Probability and Statistics for Engineers (IOE 265),* Programming and Introductory Data Structures (EECS 280), Linear Algebra (MATH 214), Elementary Programming Concepts (EECS 183)
- Honors: William J. Branstrom Freshman Prize, University Honors (2020 – 2021)

WORK EXPERIENCE

Juni Learning   Remote
Computer Science Instructor   *Sept 2021 - Present*
- Taught weekly lesson plans to 8 – 18 year students in Python, Java, and JavaScript courses
- Encouraged students to engage with coding projects and material while maintaining a positive relationship
- Monitored student progress and modify lesson plans to promote critical thinking and growth

Kode With Klossy   Detroit, MI
Teaching Assistant   *Aug 2019*
- Taught Mobile Applications Development (Apple's Swift, iOS, and Web Development) curriculum to 20 girls ages 13 – 18, a majority of whom now plan on pursuing a future in computer science
- Introduced a coding curriculum that included the basics of Git, design process, and introductory to intermediate Swift. Assigned larger projects for scholars to display their knowledge and engage with material
- Maintained high classroom morale when leading lessons and assisting with debugging
- Created lesson plans to engage students with material and foster collaborative and creative thinking

LEADERSHIP/ACTIVITIES

Kappa Theta Pi Professional Technology Fraternity, University of Michigan   Ann Arbor, MI
Committee Member   *Jan 2021 – Present*
- Facilitated discussion about ethics and diversity in the technology industry with 25 members to educate on practical concerns of technology and underrepresentation within the field.

SHEI Magazine, University of Michigan   Ann Arbor, MI
Photography Feature Lead   *Jan 2021 – Present*
- Managed a team of 8 photographers and fashion members to implement creative and unique themes for 3 monthly digital magazine releases and leveraged Adobe Creative Suite to enhance and correct photographs

M-HEAL, University of Michigan   Ann Arbor, MI
Incubator Member   *Sept 2020 – Dec 2020*
- Collaborated on project development team of 8 members focusing to improve neonatal care in developing areas
- Implemented design processes, assessed and researched needs statements, and utilized Arduino, CAD, and Autodesk to create an affordable device that aids in monitoring babies during delivery

PROJECTS

Mitten Map *(JavaScript)*
- Created a Michigan travel guide web app with interactive itineraries based on a user's current location in order to plan road trips to Michigan's top tourist destinations by using Google Maps, Yelp and Spotify API's

Save the Trees *(JavaScript)*
- Created a website in efforts to educate users about climate change and urge environmentally friendly changes
- Programmed a virtual reality experience to show a time warp of the effects of climate change on the Earth

Piazza Post Classifier *(C++)*
- Designed and built a program that uses natural language processing techniques to identify Piazza post subjects
- Utilized concepts such as recursion, binary trees, and map data structures

SKILLS

- Coding/Scripting Languages: C++, Java, Swift, JavaScript, HTML/CSS, Python
- Tools and Technologies: Git, VSCode, XCode, Adobe Suite, Microsoft Suite (Word, PowerPoint, Excel, Outlook)