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

Kode With Klossy | Detroit, MI
Teaching Assistant | Aug 2019
- Taught Mobile Applications Development (Apple's Swift) curriculum to 20 girls ages 13 – 18, a majority of whom now plan on pursuing a future in computer science
- Introduced the basics of Git, iOS, web and mobile development, design process, and introductory to intermediate Swift and assigned larger projects for scholars to display their knowledge
- Maintained high classroom morale when leading lessons and debugging. Assisted students in creating and deploying 10 final iOS application projects
- Helped design lesson plans to engage students with material and foster collaborative and creative thinking
- Former scholarship recipient in 2017 and 2018 for Web Development Level 1 and 2 curriculums

LEADERSHIP/ACTIVITIES

Kappa Theta Pi Professional Technology Fraternity, University of Michigan | Ann Arbor, MI
Committee Member | Jan 2021 – Present
- Facilitated discussion about ethics in the technology industry with 25 members to educate on practical concerns of technology
- United fellow female-identifying members within the fraternity to discuss the issues and hurdles involved with being a woman in technology

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
- Leveraged Adobe Creative Suite to enhance and correct photographs to be displayed in the magazine and social media posts

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
- Assessed and researched need statements for more affordable neonatal care in Penasco, Mexico
- Implemented design processes and utilized Arduino, CAD, and Autodesk to create a device that aids in monitoring babies during delivery

PROJECTS

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

Soduku Solver (Python)
- Program that finds the ideal solution to an 9x9 Sudoku grid using a backtracking algorithm

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)