RASHI GHOSH

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EDUCATION

University of Florida, Computer & Information Science & Engineering – Gainesville, Florida
- Human Centered Computing PhD Student

University of Arkansas, College of Engineering – Fayetteville, Arkansas, Fall 2020
- Major: Computer Science BS | Minor: Mathematics
- GPA: 3.804

SKILLS

Programming Languages: *C++, JavaScript, Java, Ruby/Rails, Python, SQL, MIPS Assembly Language, VHDL, HTML/CSS*

Knowledge/experience with Latex, React, Redux, Hadoop Ecosystem, HBase, Python Flask, Eclipse, Android Studio, Git, R

PROGRAMMING

File Comparer (Python): *a simple web app utilizing Python Flask that compares and outputs the similarities/differences between two files in a neatly formatted plotly table*

File-Based Database (C++): *fully implemented file-based database backend using binary search and merge sort to efficiently perform actions such as searching, inserting, and deleting records*

4 Function Variable Calculator (C++): *calculator with a menu option to input algebraic equation with variables and evaluate; heavy utilization of stack*

To-Do List App (Java): *built in Android Studio, an app that allows creating, deleting, and updating a to do list with features such as reminders and notifications*

Maze Game (Java): *project focusing on game design, heavily utilizing GUI programming, objects and classes, ArrayLists, polymorphism ,and event handling*

Quarantine-Corner (JavaScript): *full stack web application utilizing React-Redux-Firebase which allows users to create accounts and submit "kits" (suggestions) for things to do during the COVID-19 crisis; React was used for the front-end, Redux as a data store, Firebase for authentication, and Firestore for database*

WORK AND EXPERIENCE

Software Engineer, Cerner Corporation, Kansas City, MO: January 2021 – August 2021
- *Work on a team in Population Health to develop a holistic, preventative healthcare solution for healthcare managers who keep track of patient wellness and post-care routines*
- *Back-end, big data solutions (Hadoop ecosystem, HBase, Java REST API's, ETL pipelines), using the Java programming language*
- *Develop a deep understanding of process control, code review techniques, and team integration from an industry standpoint using Agile SCRUM*
- *Some work with Ruby/Rails, SQL database to build a scavenger hunt web application during training*

Teaching Assistant, Programming Foundations I & II, University of Arkansas, Fayetteville, AR: August 2019 – Present
- *Teach a supplementary programming lab in C++ for Programming Foundations I & II lecture, and grade labs, quizzes, and homework assignments*
- *Cover object oriented programming, data structures, arrays, pointers, linked lists, binary trees, stacks/queues, recursion, and sorting algorithm time complexities*
- *Serve as a resource and tutor for students in gaining a deeper understanding of C++*

Software Engineering Intern, Cerner Corporation, Kansas City, MO: May 2019 – August 2019, May 2020 – July 2020
- *Work on a team in Population Health to develop a holistic, preventative healthcare solution for healthcare managers who keep track of patient wellness and post-care routines*
- *Heavy utilization of React/JavaScript, and learned in-house Cerner Command Language (SQL-based scripting language)*
- *Develop a deep understanding of process control, code review techniques, and team integration from an industry standpoint using Agile SCRUM*

Network Operations Engineer, Edafio Technology Partners, Rogers, AR: November 2018 – April 2019
- *Shadowed senior engineers working with VMware, cloud services, and Microsoft Active Directory*
- *Developed valuable communication skills in light of business solutions and IT services*
- *Set up laptops and computers for local clients (primarily medical practices)*

VOLUNTEER	**Northwest Arkansas Give Camp 2020 – October 2020**

- *Non profit for non profits around Northwest AR, grouping software engineers and project managers to help redesign and develop websites for local non profits*
- *Worked closely with a small team for the Essentials Outreach nonprofit (who provides free hygiene products low income people) to redesign their website for improved user experience*

LEADERSHIP	**Resident Assistant, August 2016 – October 2019**

- *Communicate and collaborate with the housing department, dormitory staff, and residents to build a functioning, efficient working group and a warm, positive atmosphere in the building*
- *Plan programs for audiences ranging between 30 to over 500 people; formulate itemized budgets (ranging from $300 to $2000)*
- *As head RA, manage other resident assistants, organize meetings, plan their duties, and mediate internal conflicts*