

## EDUCATION

### PhD in Human Centered Computing

*Virtual Experiences Research Group (VERG Lab)*  
University of Florida, Gainesville, FL  
Computer & Information Science & Engineering  
August 2021 – Present

### Masters in Computer Science

University of Florida, Gainesville, FL  
Computer & Information Science & Engineering  
August 2021 – Present

### BS in Computer Science

University of Arkansas, Fayetteville, AR  
College of Engineering  
Minor in Mathematics  
August 2015 - December 2020

## RESEARCH EXPERIENCE

### Research Assistant, Virtual Experiences Research Group (VERG Lab)

University of Florida, Computer & Information Science & Engineering

- *Conduct research studies independently and with other members of the VERG lab*
- *Closely collaborate with people in the Journalism department for research*
- *Work on development and studies for NCI funded grant on virtual assistants and colorectal cancer*
- *Contribute to lab infrastructure development-wise*

## PUBLICATIONS

You, C., **Ghosh, R.**, Maxim, A., Stuart, J., Cooks, E., & Lok, B. (2022, September). *How does a virtual human earn your trust? guidelines to improve willingness to self-disclose to intelligent virtual agents*. In Proceedings of the 22nd ACM International Conference on Intelligent Virtual Agents (pp. 1-8).

*Positioning virtual clinicians as a tool to reduce colorectal cancer disparities in rural communities: The impact of identity on evaluations of virtual clinician appearance*. Poster accepted for presentation at the 46<sup>th</sup> annual meeting of the American Society of Preventive Oncology (ASPO). Tucson, AZ. March.  
Cooks E. J., Duke K., Flood-Grady, E., Vilaro M., Te P., Parker, N., **Ghosh, R.**, Lok, B., George, T., Odedina, F., Williams, M., Modave, F., Carek, P., Laber, E., Krieger, J. (2022).

## TEACHING EXPERIENCE

### Teaching Assistant, Programming Foundations I & II, University of Arkansas, Fayetteville, AR: August 2019 – December 2020

- *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++*

## SKILLS

**Programming Languages:** C++, JavaScript, Java, Ruby/Rails, Python, SQL, MIPS Assembly Language, VHDL, HTML/CSS  
**Knowledge/experience with Unreal Engine, Figma, React, Redux, Hadoop Ecosystem, HBase, Python Flask, Eclipse, Android Studio, Git, R, Latex**

## WORK 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*

**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)*

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## **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*

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## **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*