Raksha Bellary

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EDUCATION

University of Maryland, College Park – *College Park, MD* Expected Graduation: December 2023
GPA: 3.871

Major: Bachelor's Degree in Computer Science – Machine Learning Specialization
Minor: Advanced Cybersecurity Experience for Students (ACES)
Honors: QUEST (Quality Enhancement Systems and Teams); University Honors; Computer Science Honors; Dean's List (6/6 semesters)

Thomas Jefferson High School for Science and Technology – *Alexandria, VA* Fall 2016 – Spring 2020

PROFESSIONAL WORK EXPERIENCE

Oracle Cloud Infrastructure (OCI)

Software Engineer Intern, *Network Monitoring Team* **–** *Santa Clara, CA* Summer 2023

- Designed and developed a label-based grouping system using Apache Flink in Event Correlation Service to group alerts in network monitoring systems based on Prometheus labels.
- Designed and documented a grouping rules language for clients to use as input into the label-based grouping system.
- Replaced current Prometheus Alertmanager system with a more easily extensible system by adding a feature for new group root event creation.
- Saved Network Monitoring Team 50% of network alert triaging time through the new grouping system, which reduced the number of network alerts by 50%.
- Presented project overview and demo of my work to 60+ members of the Network Monitoring Team.

Software Engineer Intern, *Scan Platform Team* **–** *Seattle, WA* Summer 2022

- Designed and developed a scan event parser using Java to collect and compare scan data between two scanners as part of the OCI initiative to transition from Nessus to Qualys vulnerability scanner.
- Commended by my manager for saving the team 25% manpower by automating the scanning, parsing, and data collection processes with a Bash script to compare the two scanners.
- Created test nodes using Terraform to test the automated processes.
- Presented project workflow and demo of my work to 15+ members of the Scan Platform Team.

University of Maryland Department of Computer Science – *College Park, MD*

Undergraduate Teaching Assistant Fall 2021

- Assisted 400+ students with understanding Java concepts, debugging, and working on projects during office hours held weekly.
- Graded object-oriented programming (Java) projects and assignments.

Iribe Initiative for Inclusion and Diversity in Computing, UMD Department of Computer Science – *College Park, MD*

Teaching Outreach Ambassador Spring 2021

- Taught computer science concepts to K-12 students in underrepresented communities through weekly held high school workshops, Rise Up 4 CS+ program (AP Computer Science Principles tutoring), and Girl Scouts workshops.
- Collaborated with other ambassadors to plan computer science curriculum and organize outreach activities and events.

Weavr AI – *Start-up pinboard application for tech companies* **–** *San Jose, CA*

Software Engineer Intern Summer 2020

- Worked on an NLP project: annotated a corpus and built a text classifier using PyTorch to determine whether a text is a sales lead.

App47 – *Start-up cloud-based mobile management company – Herndon, VA*

Software Engineer Intern Summer 2019

- Worked on the WebUI for the company using Ruby on Rails to enable clients to access the service.
- Developed a status controller feature to allow the application to be easily used internally at the company.

RESEARCH

Maryland Neuroimaging Center, University of Maryland – *College Park, MD*

Undergraduate Research Assistant Summer 2023 – present

- Lead and manage the optimization and refactoring of the PG Toolkit, which indexes English sound-spelling consistency based on sublexical units, as part of the Neural Tuning of Reading project.
- Design and develop a UI to allow for enhanced usability and accessibility of the PG Toolkit.

VOLUNTEERING

Help Center @ UMD – *Student-run peer counseling and crisis intervention hotline that provides free and confidential help to the UMD community*

Peer Counselor Volunteer Fall 2020 – present

- Respond to calls and drop-in visits to provide free, confidential help.

SKILLS

Programming Languages: Python, Java, JavaScript, C, C++, Fortran, R, Ruby on Rails, OCaml, Rust, AVR Assembly
Tools & Technologies: jQuery, HTML/CSS, Linux, PyTorch, TensorFlow, pandas, scikit-learn, MongoDB, MySQL, Firebase, Git, Jira, Bash, Terraform, Apache Maven, Apache Flink, MPI, OpenMP
Skills: Machine Learning (ML), Artificial Intelligence (AI), Natural Language Processing (NLP), Cybersecurity, Computer Vision, Parallel Computing, Data Science, Algorithms, Discrete Structures, Applied Probability and Statistics, Penetration Testing, Risk Management, Design Thinking