Akanksha Bhattacharyya

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EDUCATION

North Carolina State University, Raleigh, NC — Year: 2018-Present
Master of Computer Science — GPA: 3.83
Courses: Operating Systems, Algorithms, Neural Networks and Deep Learning, Artificial Intelligence, CV

WORK EXPERIENCE

Victra (ABC Phones of NC) — June 2019 – Present
Software Developer intern

- Web developer responsible for end to end development for client projects. Worked on improving user experience for store managers across all Verizon stores.
- Designed a local marketing request web form for stakeholders and maintained responsiveness in event workflow across different departments using .NET Framework, C#, Bootstrap, CSS, HTML.

Defense Research and Development Organization, Delhi — May 2017 – August 2017
Research Intern

- Analyzed clustering algorithms in Data Mining. Used web-crawlers to extract geographical data from websites of weather stations.
- Trained and optimized K-Means and DBSCAN to achieve 10% better accuracy.

Texas Instruments India, Delhi — May 2016 – August 2016
Summer Intern at TI University Program

- Designed and implemented Smart Home Security system application using IOT infrastructure.
- Built system architecture and hardware design for presence detection, face identification and communication between host and user.
- Used BeagleBone microcontroller as a web server to remotely connect to sensors with real-time monitoring.
- Created a Bot API to send HTTP requests to Telegram server for sending alert messages, audio and visuals to client.

TECHNICAL SKILLS

Programming Languages – Java, C++, Python, C#, C, R, SQL, JavaScript
Frameworks and Tools- .Net, AngularJS, Django, Git, MySQL, Bootstrap, Kafka, Azure, Pytorch, Caffe, Tensorflow

PROJECTS

ADA Compliance

- Designed Web pages for Victra company which was in compliance with people with disabilities.
- Improved website accessibility by 8% using assistive technologies using Javascript and HTML.

Demand Paging in Xinu

- Implemented demand paging where large address space was mapped to physical memory using backing stores.
- Handled the lack of file system support in Xinu by emulating backing store with physical memory.
- Performed API calls like- creation of page tables and directories, context switching, interrupt service routines, page faults and Second chance replacement policy.

ACHIEVEMENTS AND EXTRA CURRICULARS

- Teaching Assistant at NCSU for CSC 226 Discrete Mathematics
- Part of Women in Computer Science (WiCS) society