Bishwarup Neogy

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EDUCATION

Northeastern University, Boston, MA
Khoury College of Computer and Information Sciences Sept. 2018 - Present
Candidate for Master of Science in Computer Science, GPA: 3.86/4.0 Expected graduation: May 2020
Related Courses: Programming Paradigm and Design, Foundations of Artificial Intelligence. Algorithms, Robotics Science and Systems, Data Mining Techniques.

National Institute of Technology, Warangal, India
Bachelor of Technology in Electronics and Communication Engineering, GPA: 7.93/10 Aug 2011 - May 2015
Related Courses: Data Structures, Computer Architecture, Object Oriented Programming, Computer Networks.

TECHNICAL KNOWLEDGE

Languages: C/C++, Java, JavaScript, ES6, HTML, CSS, Python, MySQL, MATLAB.
Technologies: ReST, Spring Boot, React, Redux, Backbone, Dojo, Node, Pandas, Matplotlib, NLTK (familiar).
Operating Systems: Windows, Linux.
Others: Maven, POM, Jenkins, Selenium (familiar), Git, JIRA, Agile/Scrum (PSM-1), ARIA

WORK EXPERIENCE

Intralinks, Waltham, MA, USA June 2019 – Present
Application Development Intern
- Developed accessible React-Redux applications and integrated them into existing backbone framework.
- Worked on both development and automation of features to facilitate the CI/CD process.
- Enhanced user experience by developing an AI (Topic Modeling) service to recommend documents to users.

Nokia Corporation, Bangalore, India July 2015 – July 2018
Senior Engineer
- Redesigned UI of product with Materialize and Dojo to deliver an improved and uniform user experience.
- Reduced turnaround time of development by refactoring existing code using Spring Boot.
- Built a single page application as a POC using React, providing users an interface to optimize optical networks.

PROJECTS

Online Shoppers Purchasing Intention June – Aug 2019
- Explored and analyzed a dataset of online shoppers to obtain useful insights using various visualization techniques.
- Built several models using different modeling techniques to predict customer's intention to buy a product.
- Applied SMOTE, RFE to improve performance of models and compared them using ROC curves.

Analysis of Path Planning Algorithms Mar – Apr 2019
- Implemented and analyzed various path planning algorithms used in Robotics: A*, PRM, RRT, etc.
- Tested and compared algorithms by executing on simulations of various maze environments.

Neural Style Transfer – Analysis and Improvement Nov – Dec 2018
- Implemented the Artistic Neural Style Transfer Algorithm formulated by Gatys. et. al. using CNN.
- Achieved an 18% noise reduction in output image by probing and combining activations of different layers of the VGG19 CNN for representing style.

Stock Exchange Learner Dec 2018
- Built a user-friendly Stock Exchange tutorial application using Java and Swing.
- Used MVC design pattern to achieve separation of concerns along with command design pattern.

INTERESTS/ACTIVITIES

- Led team of six in an intra-company hackathon at Intralinks.
- Created an Emergency Caller android application during the BrickHack V Hackathon held at RIT, New York.
- Conducted a workshop on Raspberry Pi and Arduino for a group of ~40 undergrad students.