

Mahendra Maiti

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Education

Master of Science, UNIVERSITY OF MINNESOTA, TWIN CITIES

Major: Computer Science

GPA: 3.78/4.0

MAY 2019 (Expected)

Courses: Distributed Computing, Data Mining, DB Systems, Recommender Systems, Spatial Computing.

Bachelor of Technology, NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR, INDIA

Major: Computer Science and Engineering

GPA: 9.07/10.0

MAY 2017

Courses: Data Structures and Algorithms, OOP, DBMS, Software Engineering, Pattern Recognition.

Skills

Languages: C++, Python, Java, C, LISP, SQL, TypeScript, JavaScript, MATLAB, C#, HTML, CSS

Frameworks/ Tools: Angular, Lenskit, JUnit, Flask, Django, Sikuli, Git, JIRA, ZooKeeper

Technologies: Unity, Unreal, Hive, Hadoop, Kafka

Others: REST, Agile Scrum, AWS, Azure, Redis, Docker

Technical Areas: Software Engineering, Database Systems, Data Mining

Experience

Software Developer Intern, HOONUIT, MN, USA

Since 09/2018

Implemented new features in SaaS platform using Django, and Angular. Developed internal dashboards.

Software Developer Intern, SMITHS MEDICAL, MN, USA

05/2018 - 08/2018

Developed a utility application that automates screenshot capture process on infusion pumps using in-house framework. Developed tool reduces operating time costs by at least 60% and can further be used for test automation and localization purposes. (C++, Python)

Software Developer Intern, CSIR-CMERI, WB, INDIA

05/2016 - 06/2016

Synthesized Rician Noise in MRI using C++ and Python in OpenCV. Implemented denoising techniques such as Hybrid KSL, NLM and compared their performance against Rician Noise. (C++, Python, OpenCV)

Projects

IoT data synchronization using edge repositories: Designed a system for efficient synchronization of IoT streamed data points with cloud. Edge repositories act as a ubiquitous middle layer, performing the tasks of device data filtration and subsequent synchronization. Developed system facilitates efficient utilization of network bandwidth and compute heterogeneity. (Python, Go, AWS lambda, Amazon S3, Azure IoT, Redis)

Game bot using Reinforcement Learning: Implemented a game bot using a model-free reinforcement learning technique called Q-learning. (Python)

Recommender System for Movies: Implemented content-based filtering, nearest neighbor collaborative filtering, and summary statistics algorithms for recommending movies based on user and movie datasets, using Lenskit toolkit. (Java, Lenskit)

Stroke rehabilitation using games in Virtual Reality: Implemented a stroke rehabilitation game for upper limb motor training of stroke patients. (C#, C++, Unity3D)

Energy efficient routing in Mobile Ad hoc networks (MANETS): Developed novel routing techniques for data offloading in MANETs using location-aware, teaching-learning based optimizations. Proposed approaches prolong network lifetime through increased fairness in terms of distribution of workload. (C++, Java)