

Nishant Maniam

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EDUCATION

UNIVERSITY OF ILLINOIS, - URBANA CHAMPAIGN

B.S. COMPUTER SCIENCE

Graduation: May 2019

GPA: 3.32

COURSEWORK

Discrete Math

Data Structures

Computer Architecture

Systems Programming

SKILLS

PROGRAMMING

Languages:

Java • Clojure • JavaScript • Python • C •

C++ • CSS • AWK

Tools and Libraries:

Boost • Armadillo • AngularJS • Lein •

Maven • Regex

EXPERIENCE

COURSE ASSISTANT | COURSE ASSISTANT FOR INTRO TO COMPUTER SCIENCE, SPRING 2016

Aided in teaching freshman in Computer Science basic Java skills and algorithms

RESEARCH

MAGNETIC RESONANCE FUNCTIONAL IMAGING LAB

Present

Working under a graduate mentor to migrate an existing Image Reconstruction software (PowerGrid) (github.com/mrfil) from MATLAB I/O to a standardized raw data format for MRI (ISMRMRD). The project is being built using several external frameworks including Boost, Armadillo and CMake. The end goal is for the software to be able to (easily) reconstruct images via GPU processing.

PROJECTS

MARKOV CHAIN BOT

Summer 2016

Built an automated Markov-Chain bot as a way to introduce myself to the Clojure language. The bot scans through a given text and builds a Markov Graph. It then walks through and outputs the new walk. The project was built using the Lein buildtool and the Clojure language.

INTEREST MATCHER

Fall 2015

Worked with a team of 7 as a part of a group class project to create a location-based social matching webapp. The bulk of the coding was in AngularJS and is where I developed skills in web development. The project was also a way to work in a team environment with weekly reports, and deadlines to be met.

NON-ACADEMIA

HACKILLINOIS STAFF HACKER EXPERIENCE AND OPEN LAB ASSISTANT

Winter-Spring 2015-2016

Was part of the 2016 HackIllinois staff on the Hacker Experience team. Helped create criteria for judging, helped with layout and setup, and ran the Open Lab. Monitoring the Open Lab involved training hackers to use the lab equipment safely, acting as a supervisor, and providing general assistance to teams present.

ORGANIZATIONS

ASSOCIATION OF COMPUTING MACHINERY

2015-Present