

Nishant Maniam

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EDUCATION

UNIVERSITY OF ILLINOIS, URBANA CHAMPAIGN

B.S. COMPUTER SCIENCE

Graduation: May 2019

GPA: 3.31

COURSEWORK

Completed:

Discrete Math
Data Structures
Computer Architecture
Systems Programming
Linear Algebra
Fundamentals of Data Science

In Progress:

Numerical Methods
Advanced Data Science
Statistics and Probability
Making Sense of Big Data

SKILLS

TECHNICAL

Languages (Fluent):

Java • Python • C • C++ •

Languages (Competent):

Clojure • JavaScript • ClojureScript

Tools and Libraries:

NumPy/SciPy • Sci-kit Learn • PyPlot
• AngularJS • Lein • Maven • VCS •
CMake

Environments:

Linux Shell • Eclipse IDE • Vagrant •
Docker • Heroku • JupyterHub

EXPERIENCE

COURSE ASSISTANT

COURSE ASSISTANT FOR INTRO TO COMPUTER SCIENCE, SPRING 2016

Guided beginning programmers in an introductory course with regard to understanding the Eclipse IDE, basic programming concepts, providing debugging help, and explaining rudimentary algorithms.

RESEARCH

MAGNETIC RESONANCE FUNCTIONAL IMAGING LAB

UNDERGRADUATE RESEARCH ASSISTANT

Fall 2016

Worked to bring an Image Reconstruction software (Powergrid) more accessible to the open source community. By integrating a standardized format developed by the scientific community we were able to circumvent many of the drawbacks that came with using proprietary software.

PROJECTS

TUXBOT

Current

A Facebook Messenger chat-bot written in Clojure. The goal is to recreate a shell environment in a Messenger chat, by tunneling commands to a Docker container and piping the output back to the user.

MARKOV CHAIN BOT

Summer 2016

Built an automated Markov-Chain bot as a way to introduce myself to the Clojure language. The program parses a given text and builds a Markov Chain, runs a random walk, and publishes the results to twitter. The project was built using the Lein buildtool and the Clojure language.

INTEREST MATCHER

Fall 2015

Worked in a team of 7 as a part of a class project to create a location-based social matching webapp. The bulk of the app was written in AngularJS and is where I honed skills in web development.

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, contributed ideas for layout and setup, and ran the ECE Open Lab. Monitoring the Open Lab involved training participants to use the lab equipment safely, acting as a supervisor, and providing general assistance to teams.

ORGANIZATIONS

ASSOCIATION OF COMPUTING MACHINERY

ACTIVE MEMBER

2015-Present

ASSOCIATION OF DATA SCIENCE AND ANALYTICS