Bhuvan Venkatesh

DATA SCIENTIST · ML ENTHUSIAST

■ bhuvan.venkatesh21@gmail.com | ★ bhuvy.com | • bhuvy2 | • bhuvy2

Education

University of Illinois at Urbana-Champaign

Urbana, Illinoi

August 2018 - March 2019

MASTER OF COMPUTER SCIENCE

- · Graduated with 3.91 GPA
- Focus Area of Machine Learning and Human Computer Interaction

University of Illinois at Urbana-Champaign

Urbana, Illinois

August 2015 - March 2019

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- Graduated Honors with 3.71 GPA
- · Focus Area of Machine Learning and Big Data

Skills.

SPECIALIZATIONS

Data Science, Machine Learning, Cloud Systems

LANGUAGES

Python, R, C/C++, Ruby, Javascript

TECHNOLOGIES

Linux, Spark, Cassandra, Hadoop

Experience

COURSE ASSISTANT

University of Illinois at Urbana-Champaign

Urbana, Illinois

August 2018 - May 2019

HEAD TEACHING ASSISTANT - SYSTEMS PROGRAMMING

- Organized roughly 20 course assistants to innovate on teaching methods
- Co-Authored an open source textbook for class to use
- Led nerdy lab sections of 30 people to help students brush up on concepts

Facebook Menlo Park, California

U.S. ELECTION INTEGRITY DATA SCIENCE INTERN

May 2018 - August 2018

- · Developed trash news detection algorithm to identify low quality political news for the upcoming election
- Detected about one 1 million "junk" views a day spanning over 2000 pages
- Landscaped the political discourse ecosystem with series of research reports

University of Illinois at Urbana-Champaign

Urbana, Illinois

August 2016 - May 2018

- Co-Taught honors class of about 50 Students about advanced systems programming
- Mentored groups of students through cool semester long systems projects
 Tutored students during office hours to help them through conceptual problems

University of Illinois at Urbana-Champaign

Urbana, Illinois

RESEARCHER/STAFF MEMBER AT THE ILLINOIS DATA SCIENCE INITIATIVE

January 2017 - January 2018

- Investigated different cloud platforms pros and cons with respect to graph processing
- · Compared the methods for doing a simple Laplacian dimensionality reduction for community detection
- Taught applied cloud computing class of 30 students with a semester-long project

Fitbit San Francisco, California

SLEEP STAGES SOFTWARE ENGINEERING INTERN

May 2017 - August 2017

- Developed and architected back-end Java/Scala microservices for new product
- Documented infrastructure and integration for the sleep stages product
- · Accelerated team's velocity by implementing user stories and fixing bugs

OracleDeerfield, Illinois

SOFTWARE ENGINEERING INTERN

May 2016 - June 2016 (Textura, Acquired), June 2016 - August 2016 (Oracle)

- Developed full stack web applications using Django, Oracle DB, and Angular JS
- Implemented build tools and helpers for merger transition
- Transitioned database migrations from postgresql to oracle and optimized queries

Awards/Certifications _____

02/2019	Teachers Ranked As Excellent (Top 10%) , University of Illinois at Urbana Champaign	Urbana, Illinois
05/2018	Deans List , University of Illinois at Urbana Champaign	Urbana, Illinois
12/2017	Deans List , University of Illinois at Urbana Champaign	Urbana, Illinois
12/2015	Introduction to Linux 101, Coursera	

Writing & Presentations _____

Systems Programming Coursebook

University of Illinois

Co-Author January 2018 - PRESENT

- · Open source introduction to systems programming complete with illustrations, proofs, and references
- https://github.com/illinois-cs241/coursebook

17th Annual Information Ethics Roundtable

Boston, Massachusetts

Panelist/Presenter April 2019

- Hosted a discussion-based panel about algorithmic unfairness in practice
- Developed general guidelines for acting ethically within an organization
- · Participated in discussion other conference attendees hosted

Projects_____

Springboard Judge

REAL TIME DIVE SCORING

- Predicts olympic dive scores using machine learning, computer vision, and system level optimizations in real time.
- Written using Python, OpenCV, Scikit Learn and Logisitic Regression
- Validated against real dives from the 2012 Olympics
- https://github.com/bhuvy2/Electronic-Judge

Activity Recognizer

RECOGNIZING ACTIVITIES FROM ACCELEROMETER

- Predicts activities i.e. walking, cooking based on wearable data using artificial intelligence
- Written in python using scikit-learn's data preprocessing and random forests packages
- · Validated with phones strapped to wrist

Super Debugger

BETTER DEBUGGING

- Built a gdb-like debugger from scratch with a focus on usability
- Supports advanced watchpoints and assertion tracking for faster memory error, logical, and test-based debugging.
- https://github.com/bhuvy2/Super-Debugger