GIRISH BALAJI

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Education

University of Illinois, Urbana-Champaign — Jun 2019 – Dec 2020
M.S. Computer Science | *specializing in Data Science (MCS-DS)* — GPA: 3.91

University of California, Berkeley — Aug 2015 – May 2019
B.S. Electrical Engineering and Computer Science (EECS) | *High Honors, EECS Honor Society* — GPA: 3.87

Experience

MICROSOFT | SOFTWARE ENGINEER — Aug 2019 – Current

- Expanding Azure graph database service exposing Windows platform data used by 700+ internal developers
- Improving modularity and performance of Windows by building graph algorithms to refactor OS architecture
- Building and debugging new Windows 10X OS platform features for broad app and hardware compatibility
- Automating documentation and cloud testing workflows to enhance engineer productivity and save ~$20k/yr

MICROSOFT | SOFTWARE ENGINEER INTERN — May 2018 – Aug 2018

- Developed C#/.NET web app for all internal teams to navigate Windows OS architecture data *(shipped 2019)*
- Implemented semantic search and visualization features to navigate package dependencies and APIs

INTUIT | SOFTWARE ENGINEER INTERN — May 2017 – Aug 2017

- Designed and shipped new fast sign-in experience for customer service tool with multi-factor authentication
- 6000+ secure accesses logged daily through new sign in experience; enhanced unit and integration tests

KAISER PERMANENTE | CLOUD DEVOPS INTERN — May 2016 – Aug 2016

- Bolstered rapid cloud deployment by automating server configuration setups (Artifactory, Gestió IPAM, DNS)

Research

BERKELEY DEEP DRIVE | RESEARCH ASSISTANT — Aug 2017 – May 2019

- Built safe web crawlers and distributed ETL infrastructure to build large-scale image learning dataset
- Designing new computer vision/ active learning techniques to improve model-assisted labeling tools speed

SOCIETY, ENVIRONMENT, AND ECONOMICS LAB | RESEARCH ASSISTANT — Aug 2016 – May 2017

- Augmented climate cost modeling, data ingestion, and graph visualizer libraries used by White House/ EPA

Projects

COURSERA VERTICAL SEARCH ENGINE | MetaPy, Python — Fall 2019

- Built engine to scrape and index lectures/ web resources, and return most relevant answers to user queries

DEEP ANIME COLORIZATION | TensorFlow, Keras — Spring 2019

- Trained Deep Convolutional GAN (DCGAN) to colorize grayscale anime images consistent with the series

SMART SUITCASE FOLLOWER | ROS, NumPy, SciPy — Fall 2017

- Developed computer vision tracking algorithms and PID controller for robot to follow target and people

NBA FANTASY PLAYER ANALYTICS | R, R libraries (i.e.dplyr) — Fall 2016

- Mined and analyzed 2015 NBA data to rank player effectiveness by position to find best Fantasy value picks

Skills

Languages: Python, Java, C#/.NET, Julia, R, JavaScript, C, C++, SQL, HTML/ CSS

Relevant Coursework: Distributed Systems; Statist. Learning; Deep Learning; AI; ML; CV; Operating Systems; Text Info. Systems; Bayesian Modeling; Databases; Robotics; Algorithms; Optimization; Adv. Probability; Data Vis; Comp. Arch; Prog Lang