Aditya Kishore

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EDUCATION

University of Southern California, Viterbi College of Engineering   **January 2022-December 2023**
Master of Science Computer Science (Artificial Intelligence)   CGPA : 3.67/4
Relevant Coursework: Analysis of Algorithms, Web Technologies, Introduction to Artificial Intelligence

R.V. College of Engineering, Bangalore, India   **August 2019-June 2019**
Bachelors in Engineering Computer Science and Engineering   CGPA : 8.89/10

SKILLS

- **Languages:** C, C++, Python, Java, HTML, CSS, Javascript
- **Tools and Frameworks:** ROBOT, Deployment Tools (AWS lambda, Dockers and Kubernetes, GitHub Pages), ML libraries (TensorFlow 2.0, Keras, PyTorch, OpenCV), Database (InfluxDB), Dashboard Development (Grafana), Telemetry (gRPC, Telegraf), Amazon AWS EC2, open edX, VMware virtualization, Angular, NodeJS, Android Studio (Java)
- **Hardware and Operating Systems:** RHEL (Red Hat Enterprise Linux), Ubuntu, Windows 8,9,10, Cisco platforms (NCS, ASR, Nexus), Internetwork Operating Systems (IOS, IOS-XE, IOS-XR), Raspberry Pi, Arduino

WORK EXPERIENCE

Software Engineering Consultant   Bangalore, India
Vision Empower Trust (Non-Profit Organization)   **October 2021-November 2021**
- Migrated organization's MOOC (Massive Open Online Courses) backend server to AWS EC2 (Ubuntu)
- Automated content upload process to improve scalability using python and open edX. This helped the organization to expand to 10 regional schools for the visually impaired and receive donations in excess of 85,000 USD from Microsoft
- Co-led development of a proof of concept Amazon Alexa skill using NodeJS, AWS S3 buckets, and deployed using AWS Lambda to help visually impaired users navigate organization's website and content

Consulting Engineer   Bangalore, India
Cisco Systems (Solution Validation Services)   **July 2019-June 2021**
- Reproduced and tested enterprise network for Goldman Sachs. Performed Operating System upgrades and automated testing using ROBOT framework to identify bugs and test new features for network deployments. Team's efforts led to subscription renewals worth more than 100,000 USD and contributed close to 5% of the entire team's revenue
- Created custom text corpus for Cisco bug scrubbing process, used various vectorization techniques for tokenization and data preparation
- Developed dashboards to display live telemetry data from multiple routers leveraging gRPC, influxDB, Grafana, and dockers
- Co-led development of a Natural Language Processing tool to reduce time taken for manual bug scrubbing process
- Created a fast and scalable algorithm to resolve non-transitive nature of cosine similarity
- Developed the code in python and deployed using dockers on global Cisco internal test servers. Tool resolved more than 70% of bugs and decreased bug processing time by 80%

Research Intern   Bangalore, India
International Institute of Information Technology, Bangalore (IIITB)   **January 2019-May 2019**
- Developed an unsupervised texture-based image segmentation algorithm called TextonsSeg. Open-sourced and deployed the algorithm on the global python repository (PyPi). Worked to convert 2D diagrams to 3D tactile models.

Consultant   Bangalore, India
Ugam Analytics   **May 2018-July 2018**
- Developed full stack web app with OpenCV-based backend for SKU detection, worked with Siamese LSTM for semantic text comparison

PROJECTS

Reducing Vehicular Noise pollution using IoT
- Proposed an alternate circuit for vehicular horns using Raspberry Pi 3 B+, relay switch, and GPS sensor with Google Maps API to reduce current going to horn based on vehicles proximity to public places or when stuck in traffic

Drone Software for Object Detection, Localization and Multiple Ground Stations Transmission
- Built software to identify alphanumerics from live drone image feed and tag geolocation to identified targets
- Implemented code to tap drone's UDP data stream to forward packets to multiple ground stations for separate processing tasks

AI agent for Little-GO
- Built an AI agent using minimax algorithm with alpha-beta pruning for small version of alpha-GO, little-GO

PixelRNN implementation on Google Colab
- Developed python code to implement PixelRNN for image completion and reconstruction on Google Colab notebook

HONORS AND AWARDS

- Awarded the best innovative project by the ISSRD,(International Society for Scientific Research and Development) at National Level (2016-17) for project- Reducing Vehicular Noise pollution using Internet of Things (IoT)
- Selected for "Code for Good 2018", a social Hackathon organized by JP Morgan Chase and Co., and offered a full-time role

LEADERSHIP AND INVOLVEMENT

- Team captain and Image processing subsystem lead for Project Jatayu. Team ranked 50th (2018) and 27th (2019) internationally in AUVSI SUAS (Association for Unmanned Vehicle Systems International - Student Unmanned Aerial Systems), an autonomous drone competition
- Taught an introductory course to Artificial Intelligence, at MyCaptain by The Climber, to over 200 students