

Aishwarya Trickangode Kaliyamardhanan

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EDUCATION

University of Florida <i>Master of Science in Computer and Information Sciences</i>	Gainesville, Florida Aug 2022 - May 2024
Vasavi College of Engineering <i>Bachelor of Engineering in Information Technology</i>	Hyderabad, India Aug 2016 - Sep 2020

TECHNICAL SKILLS

Programming Languages and Frameworks: Python, C++, C, Java, Django, Flask, R, JavaScript, SQL, Bash, Scikit, NLTK, TensorFlow, Keras, Node.js, React

Platforms and Software Principles: Linux, Windows, AWS, GCP, Azure, RStudio, Visual Studio, Git/GitHub, MVC, Unit Testing, Agile Methodologies, CI/CD, Jenkins

Other Tools and Technologies: Kubernetes, Docker, PostgreSQL, MySQL, SQLite, Apache Kafka, Elasticsearch, Vim, Perforce, Jira, Kibana, PyTorch, Pandas, Nginx, Apache Spark, Hive

WORK EXPERIENCE

Upview <i>Software Development Engineer Intern</i>	Bonita Springs, Florida Aug 2023 - Jan 2024
<ul style="list-style-type: none">Led the development of a Flask-based Bulk SEO Optimization Tool on AWS EC2, integrating YouTube and DataForSEO APIs, resulting in a 33% increase in user engagement and improved SEO analytics.Implemented secure authentication and payment processing in the web application using Google OAuth and Stripe API, enhancing user trust and financial transaction security.Applied the TF-IDF model for advanced trend analysis and recommendation algorithms, leading to a 25% increase in content visibility and user interaction on YouTube.Enhanced system performance and reliability by effectively utilizing technologies like Flask, Python, AWS EC2, MySQL, and Nginx.	
University of Florida <i>Graduate Research Assistant</i>	Gainesville, Florida Jul 2023 - Present
<ul style="list-style-type: none">Developed an R Shiny web application for field image processing, capable of processing large image files (TIFF, ZIP), and integrated an email notification system for user alerts.Managed the application's cloud migration to PubApps, designing MySQL database schemas and coordinating data transfer to HiperGator Blue storage, improving data handling efficiency.Utilized technologies such as Shiny, R, Python, MySQL, HiperGator, and PubApps to enhance the application's functionality and user experience.	
University of Florida <i>Graduate Student Assistant</i>	Gainesville, Florida Jul 2023 - Dec 2023
<ul style="list-style-type: none">Co-developed innovative speech synthesis methods using GANs and WaveGAN for data augmentation, significantly enhancing speech synthesis accuracy. Technologies used: WaveGAN, PyTorch, TensorFlow, Python, GitHub.	
University of Florida <i>Graduate Student Assistant</i>	Gainesville, Florida Mar 2023 - Aug 2023
<ul style="list-style-type: none">Led the design and deployment of a Geospatial Application using Django, integrating AWS services and Google Cloud for enhanced cloud-based solutions and data visualization.Demonstrated expertise in full-stack development, cloud platforms, and DNS management, significantly improving data accessibility and visualization. Technologies used: Django, Python, Nginx, Unicorn, AWS, Cloudflare, Google Earth Engine.	
Fire Neural Network <i>Data Scientist Intern</i>	Gainesville, Florida May 2023 - Aug 2023
<ul style="list-style-type: none">Integrated software modules using Python, Django, and Flask, enhancing system performance and introducing Apache Kafka for efficient real-time data handling.Improved system scalability and data integrity by leading migration to PostgreSQL and utilizing Microsoft Azure and GIS technologies. Technologies used: Python, Django, Flask, Apache Kafka, Microsoft Azure, ArcGIS, GIS, PostgreSQL, GitHub, Linux.	
SenseHQ <i>Software Engineer</i>	Bangalore, India Nov 2021 - Aug 2022
<ul style="list-style-type: none">Played a key role in the Implementation Engineering team, leading successful data synchronization for multiple Application Tracking Systems and improving candidate engagement.Developed time-efficient synchronization mechanisms and enhanced platform search and API services, contributing to a 30% improvement in request processing rates.Mentored new team members in Python, SQL, and database management for large-scale data processing.Technologies used: Python, Django, SQL, MySQL, ElasticSearch, PostgreSQL, AWS.	

FactSet

Hyderabad, India

*Software Engineer II**Jun 2020 - Nov 2021*

- Enhanced alerting and search services, APIs, and their performance, contributing to a 28% increase in data processing efficiency and client satisfaction.
- Successfully migrated key notification systems and APIs to cloud infrastructure, improving system resilience and scalability.
- Technologies used: C++, Java, Python, SQL, Linux, Windows, MySQL, ElasticSearch, Git/Github, VSCode, NGINX, Kibana, Jira, AWS.

*Intern**Jan 2020 - May 2020*

- Developed client-facing saved search alerts and dashboards, significantly boosting user engagement and alert subscriptions through intuitive and responsive design.
- Delivered critical real-time insights through advanced analytics, substantially enhancing user experience and the effectiveness of insights delivery.