Abhishek Srikanth

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EDUCATION

Purdue University, IN
Master of Science in Computer Science **|** GPA: 4.0/4.0   Aug 2023 - Jun 2025
Amrita Vishwa Vidyapeetham, India
Bachelor of Technology in Computer Science & Engineering **|** GPA: 3.28/4.0   Jul 2017 - Aug 2021

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++, Bash
Frameworks/Technologies: Django, React.js, Flask, TensorFlow, Keras, PyTorch, Scikit-Learn, Matplotlib, Seaborn, NLTK, Numpy, REST APIs, Celery, Message-queues, Deep Learning, Machine Learning, Artificial Intelligence, Linux, RPM Packaging, DEB Packaging, Jinja, HTML, CSS, Cron, Systemd services, SQL, Microservices
DevOps & Tools: Git, Jenkins, Linux (Bash Scripting, Packaging), Docker, GitLab Pipelines
Certificates: Open Source Software Development Methods, Linux for Developers, How Google does Machine Learning, Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

SOFTWARE ENGINEERING AND INDUSTRY EXPERIENCE

Software Engineer, BETSOL, Bangalore, India   Jan 2023-Jul 2023
- Resolved security issues in legacy code and dependencies and ensured application-wide compatibility, impacting 80% of the user base.
- Contributed to the development of a deduplication feature, reducing backup storage by 50-90% in enterprise environments.
- Fixed critical bugs that affected tape backups' integrity, which affected over 80% of users and terabytes of data.
- Optimized and maintained 6+ core Zmanda Git repositories, ensuring seamless version control across multiple teams.
- Contributed to Amanda Community (Open-Source) and Enterprise editions, improving system reliability.
- Spearheaded the Build and Packaging team; automated CI/CD pipelines in GitLab and Jenkins for Python, C, Perl, and Golang applications.
- Led and managed project plans for multiple program increments within the Scaled Agile Framework, achieving near 100% on-time delivery and alignment with project goals.

Associate Software Engineer, BETSOL, Bangalore, India   Jul 2021-Dec 2022
- Developed and enhanced a monitoring feature using Django Rest Framework, reducing data latency by 95% and tracking 100+ critical jobs and workflows in near real-time.
- Designed and developed multiple Proofs of Concept, including Disaster Recovery and Global Data Deduplication, resulting in a 50-90% reduction in backup storage.
- Collaborated with cross-functional teams to resolve over 100 critical production bugs reported by a large user base.
- Mentored 5+ interns in building Proofs of Concept and developing various product services, leading to successful project completions and enhanced team productivity.

Software Engineer Intern, BETSOL, Bangalore, India   Jul 2021-Dec 2022
- Responsible for designing and implementing POCs using RESTful APIs to monitor critical backup and restore jobs in Zmanda.
- Successfully built the backend and data pipelines for the monitoring feature.

Data Analysis Intern, National Institute of Ocean Technology, Chennai, India   Jan 2020- Feb 2020
- Analyzed Arctic data, including Sound Speed Profiles, Salinity, Temperature, and Wind Speed, utilizing unsupervised clustering techniques (K-Means, DBSCAN, Agglomerative)
- Implemented supervised learning methods to predict vessel movement in the Arctic region through analysis of Sound Speed Profiles.
- Utilized visualization techniques to effectively communicate clusters and data point relationships in the analyzed data.

RESEARCH EXPERIENCE

A Genetic Algorithm Based System with Different Crossover Operators for Solving the Course Allocation Problem of Universities.
Published in: New Trends in Computational Vision and Bio-inspired Computing. ICCVBIC 201
Code: https://github.com/AbhishekSrikanth/EA-for-General-Assignment-Problems

PERSONAL PROJECTS

- Paper Reimplementation: Model Agnostic Meta Learning
- Translating Natural Language to Bash commands using Transformers.
- Parallel convolutional operations and edge detection in images using MPI and OpenMP.
- Detecting smoke in CCTV live feed using VGG16 and transfer learning.
- User sentiment detection on live chat applications for chatbots using Keras and Flask.