Aarya Ashok Kumbagowdana

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SUMMARY

Innovative Software Engineer with expertise in DevOps, automation testing, scalable web application development, and deep learning research. Proven success in optimizing system performance, reducing dependencies by 30%, and enhancing communication efficiency by 50%. Skilled in Python, Java, AWS, and PyTorch, with a strong foundation in cloud-based architectures and machine learning frameworks. Seeking to leverage technical and analytical skills to drive innovation and efficiency in a dynamic software engineering environment.

EDUCATION

Vellore Institute of Technology — Vellore, Tamil Nadu
Integrated M.Tech in Computer Science and Engineering *GPA: 8.96* — Sep 2021 – Present

Nehru Smaraka Vidyalaya — Bengaluru, Karnataka
12th CBSE PCMCs *Percentage: 89%* — Jun 2019 – May 2021

Sri Kumaran's Public School — Bengaluru, Karnataka
10th ICSE *Percentage: 93%* — Mar 2018 – Apr 2019

PROFESSIONAL EXPERIENCE

Deep Learning for Epilepsy Detection — Vellore, Tamil Nadu
Research Project — Feb 2024 – Present

- Engineered a deep learning model using PyTorch to analyze EEG data for epilepsy prediction, achieving an initial accuracy of **5%** on test datasets. Implemented Feedforward, Recurrent, and LSTM neural networks to detect seizure occurrences, improving detection rates by **53%**.
- Collaborated with a multidisciplinary team to refine algorithms, aiming to assist medical professionals by providing reliable preliminary analysis tools.
- Preparing to publish research findings in a peer-reviewed journal upon project completion.

Toyota Kirloskar Motors — Bengaluru, Karnataka
Intern — Jun 2024 – Dec 2024

- **Bulk Notification System:** Designed and implemented a load-balanced API using Apache Kafka to manage high-traffic loads, increasing system throughput by **80%** and reducing message delivery latency by **20%**.
- **Automated Testing:** Established an automated testing framework for iOS apps using Xcode and Katalon Studio, reducing testing time from **7 hours** to **1 hour** (an 85.71% decrease).
- Streamlined deployment processes, doubling deployment speed from **2 deployments/month** to **4 deployments/month**.

IT Futurista — Bengaluru, Karnataka
Freelancer — Aug 2023 – Nov 2023

- Revamped and launched a responsive single-page website using HTML, CSS, JavaScript, and TailwindCSS, leading to a **32%** increase in website traffic.
- Optimized user interface and simplified content layout, resulting in a **15%** reduction in bounce rate and a **20%** increase in user engagement time. Implemented SEO best practices, improving search engine rankings by **12 positions**.

Langoor — Bengaluru, Karnataka
Intern — May 2023 – Jul 2023

- Developed a Kanban Task Management System using Django, integrating features like message boards, deadline tracking, and color-coded task indicators.
- Enhanced team productivity by **20%** as measured by tasks completed per week, reducing project completion time by **50%**.
- Leveraged AWS services (EC2, S3, RDS) for scalable deployment, reducing page load times by **25%** and improving application uptime to **99.9%**.

SKILLS

Programming Languages:	Python, Java, HTML, CSS, JavaScript
Frameworks and Libraries:	Django, AngularJS, NestJS, PyTorch, NumPy, Pandas
Cloud and DevOps:	Amazon Web Services (EC2, S3, RDS), Microsoft Azure, Docker, Jenkins, GitHub
Automation and Testing:	Katalon Studio, Xcode, Selenium
Machine Learning:	PyTorch, HuggingFace, Scikit-learn
Databases:	PostgreSQL, MongoDB, MySQL

ACHIEVEMENTS

Google AI Essentials Certification — Sep 2024
Google – Specialized in leveraging generative AI for enhanced decision-making.

AWS Solutions Architecture Job Simulation — Aug 2024
Forage - AWS – Designed a scalable architecture using Elastic Beanstalk to address performance challenges.

Software Engineering Lite Job Simulation — Aug 2024
Forage - JP Morgan Chase – Simulated a project for JPMorgan Chase, creating a new class and test suite.

Co-Organizer, Yantra24 InnovationX Hackathon — Mar 2024
Advertising and Marketing Club, VIT – Co-organized a national-level hackathon, attracting over 400 participants. Managed event logistics, promotion, and coordination with sponsors and participants.