

Amogh S Bharadwaj

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Skills

Languages: Python, GoLang, HTML, CSS, JavaScript

Frameworks: Django, Flask, TensorFlow, Keras, Bootstrap, Gorilla/Mux, Gin Gonic, Pytest

Tools: Git, GitHub, Gerrit, Docker, Kubernetes, Jenkins, Postman, XAMPP, Grafana, Prometheus, n8n, Flowise, CrewAI

Databases: MySQL, PostgreSQL, MongoDB, Redis, Pinecone

Machine Learning: Prompt Engineering, Agents, RAG, PEFT, LoRA, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn

Cloud Technologies: AWS, GCP

Soft Skills: Leadership, Communication, Problem-Solving, Collaboration

EXPERIENCE

Software Engineer

Tata Elxsi [tataelxsi.com]

Oct 2023 – Present (1 year 6 months)

Bengaluru, Karnataka

- Developed an AI-powered test analysis application integrating Generative AI, Django, MySQL, and Plotly, reducing manual processing time by 10 hours per cycle and improving decision-making efficiency for release planning by 40%.
- Automated unit and integration test case generation using Generative AI, Flask, and PostgreSQL, enabling faster debugging of OTA server logs. Built a full-stack test case management system with a Flask backend and an interactive web interface, leveraging Boto3, EC2, SQS, and S3, reducing defect resolution time by 30% and cutting test-writing time by 50%.
- Implemented fine-tuned LLMs to accelerate test case creation, utilizing Playwright for automation and Grafana for dashboard insights. Developed and deployed a full-stack dashboard with Django and JavaScript, enabling real-time test tracking and reducing test authoring time by 35%.
- Developed a scalable test platform in Go with REST APIs, Gorilla Mux, and GORM, enabling seamless test execution across multiple environments. Containerized using Docker and deployed using MongoDB, reducing infrastructure overhead costs by 30% and aligning with industry-standard assessment frameworks.

Full Stack Developer Intern

5x5 Gaming [5x5gaming.com]

Mar 2023 – May 2023 (3 months)

California, United States

- Designed and developed full-stack web applications from conception to deployment using Django, Flask, Bootstrap, HTML, CSS, and JavaScript. Led the development of a task management platform, increasing team productivity by 25% and reducing task completion time by 15%.
- Built and optimized RESTful APIs, managing authentication, data storage, and business logic with PostgreSQL. Ensured efficient data retrieval and system scalability, leading to a 20% improvement in application performance.
- Containerized applications using Docker, ensuring consistent environments across development and production. Deployed scalable solutions on AWS EC2, enhancing system reliability and performance.

Full Stack Developer Intern

Compsoft Technologies [compsofttechnologies.com]

Mar 2022 – Apr 2022 (2 months)

Bengaluru, Karnataka

- Developed a full-stack QA Hub, enabling collaborative knowledge sharing and structured issue resolution, increasing user engagement by 30%.
- Built and optimized the platform using Python, Flask, SQLite, Bootstrap, and JavaScript, integrating APIs and monitoring performance with Prometheus. Improved platform functionality by 40% by designing and developing features that streamlined query management and enhanced user experience.

PROJECTS

Outlier Detection Based on Sensitivity of Data [Research Paper]

Jul 2022 – Mar 2023

Python, Pandas, Numpy, Matplotlib, Scikit-learn

- Developed a comprehensive Python framework for outlier detection, implementing and evaluating advanced algorithms like Boxplot, MAD, LOF, Two Sigma, and Three Sigma, achieving 95% accuracy.
- The system efficiently identifies anomalies in large datasets, facilitating better data-driven decision-making.

COVID Bed Slot Booking System [GitHub]

Aug 2022 – Nov 2022

Bootstrap, Flask, MySQL, XAMPP

- Created a full-stack web application to manage hospital bed bookings during the COVID-19 pandemic.
- Built using Bootstrap for the frontend and MySQL with XAMPP for the backend, the application automated booking, tracking, and reporting, ensuring a user-friendly interface for both patients and healthcare providers.

ACHIEVEMENTS

Rising Star Award for outstanding performance and rapid growth.

Project Excellence Award for exceptional contributions to project success.

Best Tech Design Award at Elxsi Vista Event for presenting best technical design idea.

Operation Game Changer 1.0, 2.0, 3.0 Awards for completing and applying soft skills effectively in the workplace.

Mega Champion Award for excellence in task management and effective team leadership.

Shortlisted Short Film for the Stoned Monkey Kannada Short Film Festival.

EDUCATION

Bachelor of Engineering (B.E.) in Computer Science

2019 – 2023

Dayananda Sagar Academy of Technology and Management

Bengaluru, Karnataka

Pre-University Course (PUC)

2017 – 2019

Shri Bhagwan Mahaveer Jain College

Bengaluru, Karnataka