SHAMIL P

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EDUCATION

Krupanidhi Degree College — 2022–2025
Bachelor of Computer Applications (CGPA: 7.62/10) — *Bangalore, Karnataka*
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming (OOP) Concepts, Database Management Systems, Operating Systems, Cybersecurity

Govt. Polytechnic College — 2019–2022
Diploma in Instrumentation Engineering — *Mattannur, Kerala*

EXPERIENCE

Prinston Smart — Jan 2025–Feb 2025
Software Development Intern (AI/ML) — *Bangalore, Karnataka*

- Developed a real-time fire detection system by fine-tuning a YOLOv8 model, improving accuracy by 15% with data augmentation and parameter optimization.
- Engineered data preprocessing pipelines and statistical analyses to improve model stability.
- Built dynamic dashboards to visualize model performance metrics, enabling data-driven iteration and reducing evaluation time.

PROJECTS

Homeli Food Delivery Application | *React Native | Node.js | Express | MongoDB | GitHub*

- Developed a cross-platform mobile app featuring real-time order tracking and a secure JWT authentication.
- Designed and integrated RESTful APIs with MongoDB hosted on AWS, improving API response time by 25% for menu and cart operations.
- Optimized client-side state management to enhance UI responsiveness, boosting user engagement by 40%.

Real-time Fire Detection System | React, Node.js, WebSockets, Python, Docker| *GitHub, Demo*

- Built a full-stack web app for real-time video inference, cutting end-to-end latency by 30% via optimized WebSocket communication.
- Fine-tuned a YOLOv8 model with PyTorch & OpenCV, achieving 25+ FPS and a 15% increase in accuracy.
- Containerized with Docker and deployed on Netlify, demonstrating end-to-end CI/CD and DevOps proficiency.

AI Image Captioner | React, Node.js, OpenAI Vision API | *GitHub, Demo*

- Developed a full-stack application that generates descriptive captions for images by integrating the OpenAI Vision API.
- Deployed the frontend on Netlify and backend on Render, maintaining 99% uptime and successfully processing 100+ user uploads.

TECHNICAL SKILLS

- Programming Languages: Python, Java, JavaScript, C, C++, SQL
- Frontend: React, React Native, Bootstrap, HTML, CSS, Tailwind CSS
- Backend: Node.js, Express.js, RESTful APIs
- Databases: MongoDB, MySQL
- Tools & Platforms: AWS (EC2, S3), Git, Docker, Linux, Netlify, OpenCV, PyTorch, CI/CD

CERTIFICATIONS

- **React JS** (Scaler) — *Issued: Oct 2025*
- **Career Essentials in Generative AI** (*Microsoft*) — *Issued: May 2025*
- **Cybersecurity & Ethical Hacking** (*KEONICS, Govt. of Karnataka*) — *Issued: Aug 2023*