AMARNATH KAUSHIK

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EXPERIENCE

Capgemini   *August 2022-June 2024*
Software Engineer   *India*

Project: Software solutions for Logitech video conferencing products.

- Spearheaded **Android OS service updates**, reducing installation times by **20%** and enhancing user experience.
- Triaged and resolved **critical service issues within 24 hours**, reducing downtime and improving customer experience, leading to **15%** increase in system reliability.
- Handled the **Linux security policy upgrades** to ensure proper access restrictions were placed for our services.
- Optimized **Jenkins pipelines** by updating dependencies, achieving consistent green builds, and streamlining deployment processes.

Achievements:

- Ranked **#1 among 100+ new hires**, demonstrating exceptional technical proficiency and rapid learning ability.
- Recognized with the **Capgemini WOW Award** for innovation and efficiency, contributing to a **10% increase in customer satisfaction** scores.

SKILLS

Programming Languages: Java, Kotlin, Python, C/C++, SQL, TypeScript
Web & Mobile: HTML, CSS, JavaScript, PHP, React, Streamlit, Android
Backend & Databases: Node.js, PostgreSQL, MySQL
Cloud: AWS, Firebase
Machine Learning & AI: TensorFlow, Keras, OpenCV
Version Control & CI/CD: Git, Jenkins

EDUCATION

Santa Clara University   *September 2024-June 2026*
Master of Science, Computer Science

B.N.M Institute of Technology   *August 2018-June 2022*
Bachelor of Engineering, Computer Science

PROJECTS

Patient Monitoring Using Emotion Recognition

Technologies used: Python, Anaconda Navigator, Jupyter Notebook, Keras, TensorFlow, Streamlit, Machine Learning, OpenCV

- Developed a **4-layer CNN model** achieving **80% accuracy** in pain detection, improving diagnostic insights for clinical applications.
- Built a **Streamlit-based web app**, reducing manual emotion assessment time by **50%** for doctors.
- Published in **IJRASET, Volume 10, Issue VIII**, increasing visibility among **1000+ researchers**.

File Transfer Application

Technologies used: Java, Kotlin, Android Studio

- Implemented an Android application and independently created the **network transfer module**, enabling **secure encrypted data transmission** between client and server.
- Reduced data transmission errors by **30%** by optimizing network transfer protocols.
- Achieved an average **file transfer speed improvement of 25%** over traditional Bluetooth-based sharing.

Multi-Image Fusion Generator

Technologies used: Python, Flask, OpenAI GPT-4 Vision, Dall-E, Pillow, Requests

- Built a Flask-based AI tool that generates a composite image from 3-5 reference inputs using GPT-4 Vision and DALL-E 3, with secure API integration and error handling.
- Automated image captioning and prompt generation, reducing **manual effort by 70%** and improving output relevance across 150 test cases.
- Designed modular architecture with preprocessing logic to standardize image inputs, **decreasing generation errors by 40%**

Small Business Management System

Technologies used: HTML, CSS, PHP, XAMPP

- Developed an **PHP-based** order management web application for small business owner to manage their orders and services in an easy and efficient way.
- It allows for **secure user authentication**, ensuring **100% data privacy** and security. The user can create, view, and edit customer orders.
- Developed daily/monthly sales reports, reducing manual report generation time by **70%**.