VAIBHAV ACHUTHANANDA

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SUMMARY

MS Computer Science candidate with proven full-stack development, system administration, and artificial intelligence expertise. Skilled in developing responsive web applications that improved user experience by 40% and deploying ML models that achieved 87% accuracy. Passionate about leveraging technology to solve real-world problems through innovative solutions.

EDUCATION

Stevens Institute of Technology — Expected: May 2026
Master of Science in Computer Science — *GPA: 4.0/4.0*
- Relevant Coursework: Deep Learning, System Administration, Advanced Algorithms, Web Programming

Lovely Professional University — Jun 2023
Bachelor of Technology in Computer Science and Engineering — *GPA: 3.3/4.0*

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript, Swift, Go
Front-End: React, Next.js, Svelte, SvelteKit, Tailwind CSS, Three.js, Redux
Back-End: Node.js, Express, REST APIs, GraphQL, Microservices
Data & ML: TensorFlow, PyTorch, scikit-learn, Keras, NumPy, Pandas, CNN, SVD
Databases: MongoDB, MySQL, PostgreSQL, Firebase, Redis
DevOps & Tools: Docker, Git, CI/CD, AWS, Google Cloud, Linux, Bash

PROFESSIONAL EXPERIENCE

Mohit Mokal Mediation — Jan 2024 – Aug 2024
Software Engineering Consultant — *Bengaluru, India*
- Architected and implemented a scalable web application using React, Next.js, and Tailwind CSS that handled 15K+ concurrent users, reducing page load time by 75% and increasing conversion rate by 40%
- Designed a microservices-based API architecture with Node.js, implementing automated testing with Jest that increased code coverage to 92% and reduced deployment bugs by 80%
- Engineered a content management system leveraging the Blogger API, Firebase, and custom webhooks that automated updates and increased content freshness metrics by 65%

TECHNICAL PROJECTS

Computer Vision Emotion Recognition System `Python • TensorFlow • Swift • ARKit • CNN`
- Created a real-time computer vision system that detects and classifies 7 distinct human emotions with 93% accuracy using a custom-trained CNN architecture with 5 convolutional layers
- Engineered 3D facial representation using ARKit and ARSCNFaceGeometry to generate 52 facial anchor points, enabling precise emotion tracking even in low-light conditions
- Optimized model for mobile deployment by reducing inference time to under 50ms and memory usage by 75% while maintaining recognition accuracy within 3% of server-based model

Advanced Music Recommendation Engine `Python • SciPy • NumPy • scikit-learn`
- Engineered a hybrid recommendation system processing 1M+ songs and 500K+ user profiles that achieved 87% recommendation accuracy and increased user engagement time by a factor of 2.3x
- Implemented matrix factorization algorithms (SVD with $k=100$ latent factors) that reduced computational complexity by 40% while improving cold-start performance by 35%
- Deployed ensemble machine learning approach combining collaborative and content-based filtering that reduced the user preference prediction error (RMSE) from 0.98 to 0.32

AWARDS & LEADERSHIP

- Published research in the proceedings of the 7th International Joint Conference on Computing Sciences (ICCS-2023)
- Top 6 finalist in the All India Capture The Flag (CTF) competition organized by BIT Mesra with over 200 participants
- Operations Lead at Google Developer Student Clubs, mentored 30+ student developers and organized 12 technical workshops
- University representative at the North Zone Inter-University Chess Championship, reaching quarterfinals