KUNWARJEET SINGH BINDRA

bindrak@uci.edu | (949) 815-8076 | Irvine, California 92617 | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Software Engineer with experience in full-stack development, specializing in frontend, backend and cloud computing technologies.

EDUCATION

University of California - Irvine, California, USA Sept. 2024 – Dec. 2025

Master of Software Engineering *GPA: 4.0/4.0*

Courses: Data Structures, Database Programming, Network Programming, Cloud and Security Foundations, Distributed Systems

Guru Gobind Singh Indraprastha University, Delhi, India Aug. 2017 – June 2021

Bachelor of Technology (Electronics and Communications Engineering) *GPA: 3.67/4.0*

Courses: Introduction to Programming, Computer Architecture, Digital System Design, Data Communications and Networks

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, PHP, Python
- **Web Development:** HTML, CSS, React.js, Redux, Zustand, Next.js, Webpack, Babel, Node.js, Express.js, REST APIs, GraphQL
- **Databases and DevOps:** MySQL, PostgreSQL, MongoDB, AWS, Docker, Kubernetes, Vercel, Jenkins
- **Tools and Software Engineering:** Git, GitHub, Postman, JIRA, OOPS, SDLC, LLD, HLD, Unit Testing, Distributed Systems

PROFESSIONAL EXPERIENCE

NexG IoT Solutions, Haryana, India Jan. 2021 – Sept. 2024

Senior Software Engineer

- **Demonstrated Full Stack Expertise**: Developed scalable architectures with frontend (React, Next.js) and backend (Node.js, Java, microservices, RPCs) technologies, achieving 95% on-time delivery and resolving 80% of critical issues within 24 hours.
- **Spearheaded Content Management System (CMS) Revamp:** Led the full-stack revamp of the CMS, improving content workflows, RBAC, and media uploads, resulting in a 60% boost in user satisfaction.
    - Engineered the frontend using Next.js, TypeScript, HTML, CSS, and Material UI, implementing optimization techniques like code splitting and lazy loading, resulting in a 50% performance improvement.
    - Implemented 10+ RESTful APIs in Node.js to create, fetch, and update different content types, as well as handle user authentication, utilizing MongoDB (NoSQL) for data management.
    - Designed and orchestrated a CI/CD pipeline, where GitHub push triggers Jenkins to build and push a Docker image to AWS ECR, followed by a Helm chart update, enabling Argo CD to detect changes and sync Kubernetes (via Amazon EKS) to seamlessly deploy the updated containers on AWS EC2.
- **Constructed FAST Service:** Pioneered a $200,000 Free Ad-Supported Streaming Television (FAST) service using JavaScript, React.js, jQuery, Tailwind CSS, and Apollo Client for GraphQL, implementing features like drag-and-drop reordering, ad monetization, and automated scheduling, boosting user retention by 20%.
- **Delivered Award-Winning Contributions:** Recognized with the Top Performers Award in both March 2023 and March 2024.

PROJECTS

FastAPI Powered Real-Time OMS | *Python, FastAPI, WebSocket, PostgreSQL, Docker, AWS* Jan. 2025 – Feb. 2025

- Devised a real-time order management system using FastAPI and WebSocket for live updates, PostgreSQL and SQLAlchemy for a scalable backend, and optimized performance with asynchronous handling, reducing order processing time by 30%.
- Containerized the app with Docker, deployed on AWS EC2, and streamlined CI/CD using GitHub Actions and Docker Hub, cutting deployment time by 50%. Ensured secure deployment via SSH and EC2 security groups, maintaining 99.9% uptime.

MemoryLane AI | *TypeScript, Next.js, Material UI, OpenAI, Generative AI, Vercel* Oct. 2024 – Dec. 2024

- Created a research platform for individuals with Dementia using Next.js and Material UI, enabling users to record and organize memory events and generate personalized albums with images powered by Generative AI.
- Integrated OpenAI's Whisper API for audio-to-text conversion, transcribing 500+ audio recordings of memory events to enhance research accessibility, while setting up a CI/CD pipeline on Vercel to ensure efficient deployment of the platform.