Charan Raj Kandula | kandulacharanraj@gmail.com | linkedin/kandula-charan-raj

SUMMARY

A results-oriented Software Developer and Cloud professional with deep expertise in GCP with a Master's in Computer Science. Expertise in designing, developing, and deploying scalable full-stack applications and cloud-native solutions. Proven ability to build robust backend services, dynamic user interfaces with React, and architect secure cloud infrastructure. Adept at leveraging modern technologies, including LLMs and AI services, to build innovative products and solve complex business problems.

TECHNICAL SKILLS

- **Cloud & DevOps (GCP):** Firebase, Firestore, Cloud Run, Cloud Functions, Compute Engine, Cloud Storage, IAM, Cloud Logging, Cloud Monitoring, CI/CD, Google Kubernetes Engine (GKE), Pub/Sub
- **Backend**: Node.js, Express.js, Python, RESTful APIs, MongoDB, MySQL, PostgreSQL
- **Frontend**: JavaScript (ES6+), TypeScript, React, HTML5, CSS3, Bootstrap
- **Development Tools**: Git, GitHub, Docker, VS Code, PowerShell
- **AI & Machine Learning**: Gemini, Vertex AI, OpenAI (GPT-4, DALL-E), Whisper, LLM API Integration

PROFESSIONAL EXPERIENCE

Software Developer | AKOHR LLC | New York, NY, Mar 2024 - June 2025

- Architected and developed a full-stack Personalized Software Management Product to enhance user productivity and manage lifestyle data.
- Engineered innovative chatbots and interactive features, increasing user engagement metrics by 15%.
- Developed secure user and admin dashboards for tracking and managing sensitive patient health data, ensuring HIPAA compliance.
- Performed data analysis to inform product development and key business decisions.

UI/UX Developer Intern | 3DEngine | Texas, Prosper, Jan 2023 - Feb 2024

- Designed and developed responsive frontend layouts to present complex data in various UI formats, improving user experience.
- Built interactive frontend UI components, including a virtual joystick, to navigate and interact with 3D models.
- Managed and optimized database queries to retrieve 3D model details, reducing average data retrieval time by 20%.
- Troubleshot system performance issues and managed the CI/CD pipeline to streamline application updates and ensure software stability.

PROJECTS

AI Video Generation Platform | React, Python, OpenAI, MoviePy, Firebase, GCP

- Built an end-to-end automated system to generate documentary-style videos from text prompts, using GPT-4o for narration, OpenAI TTS for voiceover, DALL·E for image generation, and MoviePy for video composition, resulting in a 95% reduction in manual video production time.
- Integrated cloud storage (GCP) and a real-time dashboard to monitor, share, and manage generated video assets.
- Engineered a backend service that handled subtitle extraction (Whisper), stock asset selection, and dynamic background audio alignment.

Personalized Software Management (PSM) Project | Node.js, React, MongoDB

- Developed a full-stack web application to help students and professionals manage notes, tasks, and schedules with AI-powered suggestions
- Designed and implemented REST APIs and a micro-frontend architecture for a scalable and modular system
- Created features for personalized productivity recommendations, habit tracking, and user analytics dashboards

EDUCATION

Master of Science in Computer Science   March 2025 – Present
- St. Francis College | Brooklyn, NY
Master of Science in Computer Science, GPA: 3.25/4.0
- Stevens Institute of Technology | Hoboken, NJ   Jan 2022 – May 2023

CERTIFICATIONS & PROFICIENCIES

- Certified in Java, Python, React, and Angular Development