KESHAVA RANGA DATTA RAJAVARAM

Email ◇ Github ◇ LinkedIn ◇ Portfolio (+1)(480)796-2223

EDUCATION

Arizona State University *Aug 2023 - May 2025*
M.Sc Computer Science Overall GPA: 4.00/4.00
Birla Institute of Technology and Science, Pilani, India *Aug 2019 - Jun 2023*
B.E Electronics and Instrumentation Overall GPA: 8.35/10

PROFESSIONAL EXPERIENCE

Software Engineer Intern *Jun 2024 - Present*
True Mates *Los Angeles(Remote), USA*

- Led backend development by collaborating with a cross-functional team of backend, frontend, UI/UX developers, and a product manager, engineering and deploying Express.js modules to scale server-side applications for 1000+ users, reducing response time by 40% and significantly enhancing user experience and system reliability.
- Cut costs by 42.5% by analyzing resource utilization and implementing scheduled de-provisioning of resources.
- Implemented webhooks to handle subscription renewals for App store and Google Play subscriptions, eliminating reliance on third-party tools like Stripe and reducing 100% transaction fees.

Data Science Intern *Jan 2023 - Jun 2023*
HERE Technologies *Mumbai, India*

- Analyzed data to pinpoint significant EV behavior locations from 3+ vast location datasets.
- Conducted data quality assurance and corrected inconsistencies, which resulted in a 25% improvement in data accuracy.
- Launched AWS RDS instances, conducted query performance analysis improved response time by 35%.
- Simulated a comprehensive 6-month EV charging station dataset, showcasing data versatility and scalability.

Interim Engineering Intern *May 2022 - Jul 2022*
Qualcomm *Hyderabad, India*

- Refined a chipset design tracing and validation system, reducing manual validation time by 50%.
- Introduced a source-to-target path-tracing algorithm with pin path validation, increasing error detection rate by 40%.
- Crafted a GUI interface enabling rapid identification of errors and discrepancies, drastically improving debugging speed.

PROJECTS

StockCentral | *Node.js, React, JavaScript, TypeScript, Docker, AWS* | Demo | Github *Nov 2024 - Jan 2025*

- Developed a Full-Stack Web Application to consolidate and track investment portfolios across multiple brokerages on a single platform, empowering users to make informed financial decisions.
- Administered a robust backend with PostgreSQL for reliable data storage, designed responsive frontend interfaces with Tailwind CSS for enhanced user experience and automated deployment processes using Docker and GitHub Actions.

LambdaVision | *NextJS, AWS Lambda, S3, Video Processing, Facial Recognition* | Github *Apr 2024 - Jun 2024*

- Created a serverless video processing application that detects faces in videos, leveraging AWS S3 and AWS Lambda.
- Fashioned a responsive frontend with Next.js and TypeScript, and integrated Clerk for authentication.
- Authored Lambda function triggers to process videos, extract frames, and perform face identification.

BuildSmartDB | *Python, PostgreSQL, MongoDB, Distributed Databases* | Github *Oct 2023 - Dec 2023*

- Designed a distributed database system for analyzing smart building energy usage metrics.
- Applied fragmentation and replication to ensure efficient data distribution, high availability, and fault tolerance.

MovieFlex | *Spring Boot, MySQL, Kafka, AWS, Docker* | Github *Dec 2023 - Feb 2023*

- Developed a Spring Boot backend for a movie booking system using a microservices architecture.
- Employed MySQL for storage, Kafka for inter-service communication, Docker for containerized and AWS for deployment.

SKILLS

Programming Languages	Python, C/C++, Java, Javascript, TypeScript, HTML/CSS, PHP
Frameworks, Databases & OS	ExpressJs, NodeJs, React, MySQL, PostgreSQL, MongoDB, Springboot, Linux
Tools & Technologies	AWS, GCP, Postman, Git, Docker, Kafka, Bitrix24, Firebase, Notion, VSCode

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**