

Tarun Vusirikayala

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PROFESSIONAL SUMMARY

Software Engineer focused on architecting robust cloud-native solutions, meeting complex business needs. Deep expertise in frontend and backend technologies, notably React.js, Angular, Spring Boot, and Node.js, complemented by skilled deployment of AWS services and Docker for reliability and excellence in automation. Proven track record in developing high-performance microservices and RESTful APIs, helping to transform and energize dynamic digital businesses. Dedicated to bringing sophisticated development skills to the forefront, driving innovation through responsive and efficient technology solutions.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, SQL, HTML5, CSS3
- **Frontend:** React.js, Angular, Next.js, HTML/CSS, Bootstrap, Tailwind CSS, Redux
- **Backend:** Java (Spring Boot), Node.js (Express.js), Python (Flask, FastAPI), REST APIs, Microservices
- **Databases:** PostgreSQL, MongoDB, MySQL, DynamoDB, Redis
- **Cloud/DevOps:** AWS (Lambda, EC2, S3, API Gateway, RDS), Docker, Kubernetes, Jenkins, GitHub Actions, NGINX
- **Tools & Methodologies:** Git, GitHub, GitLab, Bitbucket, Jira, Confluence, Postman, JUnit, TDD, CI/CD, System Design

WORK EXPERIENCE

AI/ Java Developer | SCGS Solutions, East Lansing, MI | July 2024 – *Present*

- Participated in deploying services on **AWS** (EC2, Lambda, S3), gaining hands-on experience in cloud infrastructure management and ensuring application availability under supervision.
- Utilized **Docker** to containerize applications, enabling consistent environments across development and production, and supported the implementation of CI/CD workflows to automate deployments, improving deployment reliability.
- Applied **JUnit** for unit testing of Java components, contributing to maintaining code quality and reliability following **TDD** practices.
- Developed deeper AI and Java proficiency attending Dailyinfo.ai training sessions, improving collaborative outcomes.

Graduate Assistant | SUNY Institute of Technology, Utica, NY | September 2023 – May 2024

- Maintained and enhanced the Gannett Gallery website using **HTML**, **CSS**, **JavaScript**, and **React.js**.
- Designed modular components styled with **Tailwind CSS** and **Bootstrap** to improve responsiveness.
- Built a custom CMS with **Node.js** and **MongoDB**, enabling easy content updates for exhibitions.
- Created a dashboard prototype using **Angular** and explored **Next.js** for static rendering optimizations.

Software Engineer | Possible Works, Hyderabad, India | January 2021 – November 2022

- Progressed from intern to full-time engineer, contributing to backend systems for a skill-based, single-screen performance management platform.
- Developed RESTful APIs with **Java (Spring Boot)** and **Node.js** supporting scalable, real-time performance tracking aligned with KPIs.
- Assisted in building **Docker** microservices and **Kubernetes** deployments to enhance fault tolerance and enable agile HR workflow delivery.
- Implemented real-time data processing components using **Kafka** and **MongoDB**, increasing throughput for performance analytics pipelines.
- Participated in migrating legacy systems to **Go** microservices, achieving performance gains under senior mentorship.
- Supported secure authentication using **JWT** and **OAuth 2.0** for multi-tenant user access across a large enterprise customer base.
- Utilized **PostgreSQL** and **Redis** for efficient structured and in-memory data storage supporting goal, feedback, and appraisal workflows.
- Collaborated via **Bitbucket** for version control and maintained technical documentation using **Confluence**.

PROJECTS

Solving Article Complexity Through AI | September 2024 – December 2024

- Built an AI-based content simplification platform using **JavaScript**, **Python (Flask)**, and **OpenAI APIs**.
- Automated data parsing and summarization using **cron jobs**, **Python**, and **LLMs**, reducing manual work by 40%.
- Created dynamic dashboards with **React.js**, **Tailwind CSS**, and **Redux**, enabling real-time sentiment and readability insights.
- Implemented **RESTful APIs** via **FastAPI**, connected with **MongoDB** for storing user preferences and logs.
- Ensured accessibility with **ADA-compliant** features and tested responsiveness using **Postman** and browser tools.
- Integrated **LLMs** for multimodal summarization (**text/audio/video**), enabling faster comprehension across content types.

Movie Recommendation System Using AWS Personalize | January 2024 – April 2024

- Developed a collaborative filtering recommendation engine using **AWS Personalize**, handling real-time user interactions.
- Automated data import/export with **AWS Lambda**, stored datasets in **S3**, and monitored with **CloudWatch**.
- Leveraged **DynamoDB** for storing session-level user interactions and **RDS (PostgreSQL)** for structured data.
- Created microservices in **Python** and **Node.js**, deployed using **Docker**, and orchestrated using **Kubernetes**.
- Designed frontend with **React.js** and **Bootstrap**, improving usability and visual feedback.

EDUCATION

Master of Science in Computer Science | SUNY Institute of Technology, Utica, New York | January 2023 – December 2024

Bachelor of Technology in Electronics and Communication Engineering | CVR College of Engineering, India | August 2018 – April 2022