

Vikas Sangwan

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SUMMARY

Dynamic and experienced Full Stack Developer with over 2 years of hands-on experience in developing scalable web applications using **MERN stack** (MongoDB, Express.js, React.js, Node.js), **Angular**, and **Python/Django**. Proficient in building both front-end and back-end systems, RESTful APIs, and integrating cloud services like **AWS**. Adept at handling databases such as **PostgreSQL** and **MongoDB**. Passionate about delivering efficient, high-quality code and ensuring seamless user experiences across applications.

TECHNICAL SKILLS

Languages: JavaScript (Node.js, React.js, Angular, TypeScript), Python (Django, Flask), HTML5, CSS3, SCSS, SQL, GraphQL

Front-End: React.js, Angular, Redux, NgRx, Bootstrap, Material-UI, Tailwind CSS, RxJS

Back-End: Node.js, Express.js, Python, Django, Flask, REST APIs, GraphQL

Databases: MongoDB, PostgreSQL, MySQL, Redis

Cloud Services: AWS (EC2, S3, RDS, Lambda, API Gateway), Heroku, Docker, Kubernetes

Testing: Jest, Enzyme, Mocha, Chai, PyTest, Postman

CI/CD Tools: Jenkins, Travis CI, GitHub Actions.

Version Control: Git, GitHub, GitLab, Bitbucket

Tools: Docker, Kubernetes, Webpack, Babel, Chrome DevTools, VSCode, JIRA, Figma

Other: Redis, Elasticsearch, RabbitMQ, Agile Methodologies, Object oriented programming, DSA, Linux.

Security Testing: Vulnerability Assessment, API Security Assessment

EXPERIENCE

Software Engineer

Detect Technologies Pvt Ltd (IIT Madras)

Sep 2022 – Present

Remote/chennai

- Designed and built full-stack applications using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), ensuring a responsive UI and scalable back-end infrastructure.
- Developed custom components and optimized performance in **React.js** applications, achieving a 25% increase in page load speed by implementing lazy loading and code splitting.
- Implemented complex state management using **Redux** and **NgRx** for scalable and maintainable code in both **React.js** and **Angular** applications.
- Built RESTful APIs with **Node.js** and **Express.js** for data-driven applications and integrated them with front-end React and Angular components.
- Led a cross-functional team in migrating a monolithic application to microservices architecture, leveraging **Docker** and **Kubernetes** for deployment and scaling.
- Integrated **AWS services** like **EC2**, **S3**, and **RDS** to store and process large datasets, achieving high availability and cost-efficiency.
- Used **Python** and **Django** to build secure back-end services for data processing applications, integrating them with front-end components.
- Ensured security best practices with **OAuth2**, JWT authentication, and AWS IAM roles across applications, enhancing data protection.

- Collaborated with UX/UI teams to implement responsive designs with **React.js**, **Angular**, and **Material-UI**, focusing on cross-browser compatibility and mobile-first designs.
- Improved system reliability by setting up **CI/CD pipelines** using **Jenkins** and **GitHub Actions** for automated testing, deployment, and monitoring
- Followed **Agile methodologies**, actively participated in **JIRA-sprints** planning, and collaborated with cross-functional teams to meet deadlines and deliver high-quality features.
- **Documented** software system security requirements, recommended solutions, and provided technical expertise in secure coding practices and security architecture.
- Worked in a software development team to design and develop robust solutions to meet client requirements. for **functionality, scalability, and performance**.

PROJECTS

Safety and surveillance(T-Pulse)

- Implemented Micro-Frontend Architecture. (Using Single-SPA js) ,Convert existing modules into several MicroFrontends.
- Set-up and developed Web/UI using Angular Framework, Integrated API with the UI screens to provide functionality and Integrated AWS Cognito for Identity Management.
- Converted reusable components into downloadable libraries/packages and hosted them in a Repository manager. (NEXUS OSS).
- Built robust, high-performing backend systems in **Python** using **Django** and **Flask** to power web applications and internal tools for various clients.
- Managed and scaled databases using **PostgreSQL**, ensuring data integrity, indexing, and performance optimization for large datasets.
- Integrated AWS services such as **RDS** for database hosting, **S3** for file storage, and **CloudWatch** for real-time monitoring and logging.
- Deployed containerized applications with **Docker**, streamlining the development workflow and reducing deployment inconsistencies across environments.
- Collaborated with front-end developers to create robust API endpoints for web applications, ensuring proper integration of user interfaces and back-end services.

EDUCATION

Acharya Institute of Technology	Bengaluru, Karnataka
<i>Bachelor of Engineering in Information Science and Engineering</i>	<i>Aug. 2018 – July 2022</i>
Overall CGPA: 8.0/10	
K.L.E PU college	Bengaluru, Karnataka
Senior Secondary(XII) State Board	2018
Overall Percentage: 81/100	
Shree Ram Public School	Bengaluru, Karnataka
Secondary(X) CBSE Board	2016
Overall CGPA: 9.8/10	

Certification

Architecting with Google Compute Engine Specialization (5 Courses)

- Manage implementations of cloud architecture.
- Develop and manage APIs to build new applications and connected experiences.