

# Vikas Sangwan

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## SUMMARY

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Experienced Backend Developer with over 2 years of expertise in designing, developing, and maintaining scalable backend services using **Node.js** and **Python** frameworks (Django, Flask). Proficient in building RESTful APIs, integrating cloud services with **AWS**, and optimizing databases with **PostgreSQL**. Strong problem-solving skills and a passion for writing clean, modular, and well-tested code. Dedicated to improving backend performance, security, and overall application reliability.

## TECHNICAL SKILLS

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**Languages:** JavaScript (Node.js), Python (Django, Flask), SQL, TypeScript.

**Databases:** PostgreSQL, MySQL, MongoDB

**Cloud Services:** AWS (EC2, S3, RDS, Lambda, API Gateway, IAM), Heroku

**API Development:** REST, GraphQL

**Containerization:** Docker, Kubernetes

**Testing:** PyTest, Mocha, Chai, Postman, Swagger

**CI/CD Tools:** Jenkins, Travis CI, CircleCI, GitHub Actions

**Version Control:** GitHub, GitLab, Bitbucket

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

**Tools:** VSCode, Chrome DevTools, Postman, Figma, JIRA, Azure DevOps

**Security Testing:** Vulnerability Assessment, API Security Assessment

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## EXPERIENCE

### Software Engineer

*Detect Technologies Pvt Ltd (IIT Madras)*

Sep 2022 – Present

*Remote/chennai*

- Designed and developed scalable microservices using **Node.js** and **Express.js**, handling thousands of requests per minute for high-traffic applications.
- Integrated AWS services like **EC2**, **Lambda**, and **S3** into backend infrastructure to manage large-scale applications, reduce costs, and improve deployment efficiency.
- Architected and maintained database schemas in **PostgreSQL**, optimized query performance, and utilized **Redis** for caching to improve response times by 30%.
- Led the migration of legacy monolithic applications to a microservices architecture, improving scalability, resilience, and deployment flexibility.
- Deployed services using **Docker** and orchestrated multi-container deployments using **Kubernetes** on AWS.
- Developed secure RESTful APIs for mobile and web applications, implementing authentication via **OAuth2** and JWTs.
- Conducted code reviews and mentored junior developers, enforcing coding best practices, testing, and adherence to security standards.
- 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**.

## Internship Front-end Developer

Dec 2021 – Jun 2022

Paisaat

Remote

- Created responsive designs using **HTML5**, **CSS3**, and ensuring compatibility across all major devices and browsers.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs and enhancements.
- Technical Stack Used: HTML, CSS, JavaScript, React, Adobe-InDesign, Adobe-Illustrator

## PROJECTS

### Safety and surveillance( T-Pulse)

- 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.
- Developed APIs for cross-platform integration using **GraphQL**, improving data access flexibility for front-end developers.
- 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

Bachelor of Engineering in Information Science and Engineering

Aug. 2018 – July 2022

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.