Vedant Pimple

Software Engineer

vedantswe@gmail.com | +1(315)-450-4472 | LinkedIn | GitHub | Portfolio

SUMMARY

Results-driven **Software Engineer** with **5+ years of experience** designing and developing **scalable full-stack applications, cloud-native microservices, and serverless solutions**. Proficient in **Python, Java, JavaScript/TypeScript, C++, Go, Rust, Kotlin, Bash, .NET**, and frameworks including **React.js, Next.js, Angular, Node.js, Django, Flask, FastAPI, and Spring Boot**. Experienced in **AWS, Azure, GCP, CI/CD automation (Docker, Kubernetes, Jenkins, Terraform), SQL/NoSQL databases (PostgreSQL, MySQL, MongoDB, Redis, Snowflake)**, and **system design, microservices architecture, and observability tools**. Skilled in **secure coding, testing (unit, integration, E2E, TDD), AI/ML (TensorFlow, PyTorch, LangChain, OpenAI APIs), and performance optimization**, with a proven track record of delivering high-quality, reliable, and cost-optimized software solutions while mentoring teams and driving innovation.

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, C++, C#, Go, Rust, Kotlin, Bash, YAML, .NET
Web Development: React.js, Next.js, Angular, Vue.js, Svelte, HTML5, CSS3, Tailwind CSS, Bootstrap
Backend Development: Node.js, Express.js, Django, Flask, FastAPI, Spring Boot, RESTful APIs, GraphQL, gRPC, Microservices Architecture, Serverless Applications, API Gateway
Databases & Storage: MySQL, PostgreSQL, MongoDB, Redis, Cassandra, DynamoDB, Firebase, SQLite, Snowflake, Elasticsearch, Data Modeling, Query Optimization
Cloud Platforms: Amazon Web Services (EC2, Lambda, S3, ECS, RDS, DynamoDB),
Microsoft Azure (App Service, Functions, Blob Storage, AKS),
Google Cloud Platform (Compute Engine, Cloud Run, BigQuery, Cloud Functions),
Serverless Framework, Cloud Cost Optimization
DevOps & CI/CD: Git, GitHub, GitLab, Bitbucket, Jenkins, GitHub Actions, GitLab CI/CD, CircleCI, Docker, Kubernetes, Terraform, Helm, Ansible, Infrastructure as Code (IaC), Continuous Integration & Deployment
System Design & Architecture: Scalable System Design, Distributed Systems, Load Balancing, Event-Driven Architecture, Domain-Driven Design (DDD), API Design, Fault Tolerance, High Availability, Message Queues (Kafka, RabbitMQ)
Security & Compliance: OWASP Top 10, Secure Coding Practices, Authentication & Authorization, JWT, OAuth2.0, Identity & Access Management, Encryption, GDPR/ISO Compliance, Vulnerability Scanning
Testing & Quality Assurance: Unit Testing (JUnit, PyTest, Mocha, Jest), Integration & End-to-End Testing, Selenium, Postman, Test-Driven Development (TDD), Code Review Automation, Continuous Testing
Monitoring & Performance: Prometheus, Grafana, ELK Stack, Datadog, New Relic, Sentry, Splunk, Logging & Tracing, Performance Profiling, Load Testing, Application Monitoring
AI, ML & Data Engineering (Emerging Skills): TensorFlow, PyTorch, Scikit-learn, Prompt Engineering, LangChain, OpenAI APIs, Data Pipelines, Kafka Streams, Apache Airflow, Databricks
Tools & Collaboration: Visual Studio Code, IntelliJ IDEA, Postman, Jira, Confluence, Slack, Notion, Agile/Scrum/Kanban

EXPERIENCE

Intuit | USA | Software Engineer — Sep 2023 – Present

- Developed and maintained **scalable microservices** using **TypeScript, Next.js and Node.js**, improving system performance by **25%**
- Designed and deployed **cloud-native applications** on **AWS (EC2, Lambda, S3, RDS, DynamoDB)** and **Azure Functions**, ensuring **99.9% uptime** and optimized cloud costs
- Reduced task latency by batching multi-agent retrievals through healthcare-optimized memory and OpenAI embedding caches
- Led **CI/CD automation** pipelines using **Jenkins, GitHub Actions, Docker, and Kubernetes**, reducing deployment time by **40%**
- Applied **secure coding practices**, OWASP guidelines, **JWT/OAuth2 authentication**, and encryption for sensitive user data to maintain **GDPR and ISO compliance**
- Validated LLM agent behaviors with deterministic test cases and fault-injection frameworks using TypeScript and LangChain
- Built **real-time monitoring and observability** dashboards using **Prometheus, Grafana, ELK Stack, and Datadog**, increasing incident response efficiency
- **Optimized application performance** by implementing **caching strategies, query tuning, and memory management**, reducing latency by **20%**. Implemented **RESTful and GraphQL APIs** with **gRPC support**, enabling seamless integration across distributed systems
- **Mentored junior engineers** in best practices for **microservices architecture, cloud deployments, and secure coding**, improving team productivity and code quality

CleanClick | USA | CTO & Co-Founder — Jan 2020 – Dec 2020

- Led the technical strategy and development of an **AI-powered** clean-living **SaaS platform**, leveraging **Next.js, TypeScript, Node.js** and **AWS** to build scalable, cloud-native solutions focused on **real-time personalization** and **backend automation** for recommendations
- Engineered an AI infrastructure using **AWS SageMaker** to deploy **LLM agents** that drive autonomous workflows, integrating recommendation engines with **natural language** understanding for intelligent task execution
- Integrated **multimodal AI systems,** including **voice AI, TensorFlow pipelines**, and **BERT-powered NLP**, enabling **autonomous assistants** to guide users through conscious product choices, wellness practices, and clean-living education
- Optimized backend systems with **Python, Node.js, Express,** and **AWS** for real-time data pipelines and analytics

HCL | India | Software Engineer — Jan 2021 – Jul 2023

- Designed **modular web interfaces** in **Next.js and React** with **OpenAI**-powered agent integration and server-side orchestration pipelines
- Developed and optimized **SQL and NoSQL databases** (**PostgreSQL, MongoDB, Redis, Snowflake**), improving query performance by **35%**
- Orchestrated **multi-agent pipelines** with event-driven **triggers** and retry logic using **Kafka** queues and **OpenAI function calling**
- Built **serverless applications** using **AWS Lambda and Google Cloud Functions**, reducing infrastructure management overhead
- Automated **DevOps workflows** using **Docker, Kubernetes, Terraform, and Ansible**, standardizing deployments across multiple environments
- Collaborated with cross-functional teams using **Jira, Confluence, Slack**, following **Agile/Scrum methodology** to deliver projects on time.
- Leveraged **AI/ML emerging technologies** including **TensorFlow, PyTorch, LangChain, and OpenAI APIs** for intelligent data-driven features
- **Implemented observability and logging** with **ELK Stack and Datadog**, improving system reliability and proactive issue detection
- Optimized agent performance and API call latency using **batched requests, async execution,** and **cloud cost tuning** techniques

Iview Labs | India | Software Engineer — Jan 2020 – Dec 2020

- Developed backend services using **Java, Spring Boot, Node.js**, and implemented **RESTful APIs** consumed by multiple client applications
- Managed **database design and optimization** for **MySQL, MongoDB,** and **DynamoDB**, improving system efficiency and scalability
- Implemented **unit and integration testing** with **JUnit and PyTest**, maintaining high code quality and reliability
- Assisted in **cloud migration initiatives** for applications deployed on **AWS and Azure**, ensuring smooth transitions and cost optimization.
- Participated in **code reviews, agile ceremonies, and CI/CD pipeline enhancements**, promoting best practices in software development
- **Developed caching and query optimization strategies** to enhance backend performance, reducing average API response time by **15%**
- **Collaborated in designing event-driven microservices and message queue integrations** using **Kafka and RabbitMQ**, improving system scalability and reliability

EDUCATION

Master's degree in Computer Science| Syracuse University

- Relevant Courses: Advanced Data Structures & Algorithms, Distributed Systems & Cloud Computing, Machine Learning & Deep Learning
- IEEE Research Publication: Hybrid Deep Learning Model for Automatic Intrusion Detection System using CNN Hybrid Architecture

Bachelors in Computer Science | University of Mumbai, RAIT

PROJECTS

Intrusion Detection System | Python, TensorFlow, CNN-Bi-LSTM, RNN-LSTM, NSL-KDD, NumPy, Scikit-Learn **(GitHub)**

- Achieved 98.72% classification accuracy on the NSL-KDD dataset by engineering a hybrid CNN-Bi-LSTM model with automated feature-extraction pipelines in TensorFlow, enabling real-time detection and categorization of malicious network traffic
- Validated and disseminated the solution by publishing "Hybrid Deep Learning Model for Automatic Intrusion Detection System" at IEEE ICDSNS 2023, showcasing a resource-efficient IDS deployable on constrained hardware for rapid, accurate threat mitigation

Nexus Care – Healthcare Platform| Next.js, TypeScript, Appwrite, TailwindCSS, Twilio, Sentry **(GitHub)**

- Enabled secure patient onboarding and file management by implementing Appwrite authentication and storage flows in a responsive Next.js/TypeScript portal, validated with 200+ simulated profiles
- Streamlined appointment administration and notifications by building a Next.js dashboard with Twilio SMS and Sentry edge functions, detecting and resolving 100+ simulated errors during Quality Assurance