

# PRANAV WAIKAR

Senior Software Engineer (5 years)

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## PROFESSIONAL SUMMARY

Senior Software Engineer with over 5 years of experience in full-stack development, automation testing, and cloud solutions across industries like healthcare, oil and gas, and enterprise applications. Key accomplishments include designing scalable serverless architectures (reducing operational costs by 30%), building robust testing frameworks (improving QA efficiency by 40%), and leading cross-functional teams to deliver high-quality software products. Proficient in AWS, TypeScript, React, and Python, with strong collaborative and problem-solving skills.

**Education:** Bachelor's Degree in Computer Engineering - Pune University, India (2014-2019)

## SKILLS

<b>Languages/ Frameworks</b>	: JavaScript, TypeScript, Node.js, Express, React, Ruby on Rails, Python, REST APIs, WebdriverIO, Cucumber, Jest, Chai, Playwright, microservices
<b>Databases</b>	: MySQL, MongoDB
<b>Tools</b>	: Git, GitLab, GitHub, JIRA, Swagger, Jest, Postman, Docker, Smartsheets
<b>Cloud Platforms</b>	: AWS - S3, Lambda, Sagemaker, EC2, IAM, SQS, SNS, Step functions, Azure data factory, cloud functions, AWS RDS , Aurora, API gateway,

## PROJECT EXPERIENCE

Velotio Technologies Pvt Ltd

Oct 2023 - Present

**HouseCallsPro:** Electronic Health Record Management & Patient Outreach

**Role:** Backend Engineer

**Responsibilities:**

- Redesigned dashboards, enhancing user interaction and reducing error rates by 20%, benefiting 100+ healthcare professionals.
- Designed a serverless solution that reduced patient outreach report generation time by 50% using AWS Lambda and S3.
- Ensured compliance with strict security and HIPAA privacy guidelines under Agile workflows.
- **Tech Stack:** Typescript, React, Redux, Azure data factory, Express, Azure cloud functions, Gitlab-CI

**Auto-verify:** Unit testing suite for code quality enhancement.

**Role:** Typescript Engineer

**Responsibilities:**

- Engineered a Jest-based testing suite, improving code quality and test coverage by 70%.
- Led large-scale refactors across modules for maintainability and scalability.
- Mentored and integrated three new engineers & improved productivity by 40%.
- Interacted with multiple stakeholders, created well-documented spikes, and presented demos.
- **Tech Stack:** Typescript, React, Redux, Azure, Express

**Wellsite Navigator:** Mobile App for Oil and Gas Navigation

**Role:** Framework Engineer

**Responsibilities:**

- Achieved 100% reliability within three months by implementing advanced testing strategies.
- Automated testing for API reliability using Playwright and Checkly, improving error detection rates by 40%.
- Integrated automation testing with Monitoring as a code pattern based on playwright & checkly.
- Partnered with the CTO to understand business problems & effective solutioning strategy.
- **Tech Stack:** Typescript, Express, React, Redux, Postgres, graphql, github-ci, playwright, checkly

**Roxas framework:** An All-in-one framework for automation testing for mobile and web applications.

**Role: Javascript Framework Engineer**

**Responsibilities:**

- Spearheaded the development of the Roxas framework, leveraging WebdriverIO and Appium to achieve a 60% reduction in project setup time.
- Integration into cloud platforms like saucelabs, testing bot, and AWS Device farm & report-portal.
- Provided solutions for selector management, login workflow, cucumber steps library, grid management, and automated pipelines, cutting test cycles by 40%.
- **Tech Stack:** Typescript, Cucumber, WebdriverIO, Appium

**Kimchi and Cucumber-Insight:** ML based static code analytics tool.

**Role: Python Application Developer, Full stack Engineer**

**Responsibilities:**

- Designed a serverless ML pipeline using AWS SageMaker and SQS, processing 500+ configurations weekly & reduced duplication by 80% across 500+ test cases.
- This tool finds readily available cucumber steps along with their documentation and usage. It lists out duplicate or similar steps using NLP.
- Worked with various AWS consultants to understand different ML-based services and prepared detailed technical documents.
- **Tech Stack:** Nodejs, React, AWS Aurora, AWS Sagemaker, AWS Lambda, AWS SQS, Python, Google Tensorflow

**Smartsheet-reporter:** An analytics tool that helps in creating automated dashboards for projects, tracking various metrics and providing visualizations.

**Role: Javascript Backend Engineer**

**Responsibilities:**

- Delivered real-time data and dashboards, offering management a comprehensive view across multiple layers. Enhanced decision-making efficiency & enabling 20% more strategic and accurate budget allocation.
- Successfully planned and executed multiple upgrades and refactors.
- Integrated multiple data sources and prepared visualizations & metrics strategies.
- **Tech Stack:** Reactjs, Nodejs, Express, Smartsheet SDK, Jest, MySQL

**Heimdall and Bi-Frost:** Cloud-Based Parallel Testing Tool

**Role: Javascript Backend Developer**

**Responsibilities:**

- Reduced testing time by 50% by automating task distribution via AWS SQS and Lambda.
- The Calabash framework allows one to run a single test at a time on any mobile device.
- **Tech Stack:** Javascript, AWS SQS, AWS Lambda, AWS S3, AWS ECS, AWS APIGateway, Sauce Labs

**BlackOrder:** Ads and Analytics Validation Tool.

**Role: Ruby on Rails Developer, Frontend Engineer**

**Responsibilities:**

- Improved scalability to process 5GB HAR files using optimized streaming techniques.
- Improved Ads validation cycle time by 50%.
- Participated in building a POC and demonstrating to the client managers.
- **Tech Stack:** Ruby, RSpec, Ruby on rails, React

## ACHIEVEMENTS

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- **Awards and Recognition**
  - **Rockstar rookie** (May 2024) - For exceptional contributions and quick adaptability at Velotio Technologies.
  - **Innovator of the quarter** (Sept 2022) - For creating innovative tools using emerging technologies.
  - **Rising star** (Jan 2022) - For exceeding performance benchmarks.
- **Blogs**
  - [Unit tests with babel-jest](#)
  - [Blockchain-based crypto and e-wallet](#)
  - [Tensorflow model on AWS Sagemaker](#) (700+ views)