# PREETAM TEWARI

Bengaluru, KA • +91 9108938835 • tewaripreetam@gmail.com • Portfolio

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Software Engineer with 6 years of experience in software development. Dedicated professional in proven performance in development, management and leadership. Detail oriented in problem solving and planning. Ready to make an immediate contribution to the organisation

## PROFESSIONAL EXPERIENCE

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**Nagravision, Benagaluru**                                                                 Feb 2024-Present

Software Engineer

- **Designed and built the AT Platform from inception**, developing a robust Spring Boot backend to manage critical functionalities, including user and device registration, authentication, internal token generation for inter-service communication, API key management, device response handling, health checks, and seamless deployment of Firmware Over-The-Air (FOTA) updates to devices.
- **Developed a comprehensive Admin UI tool** leveraging React and Material-UI, enabling administrators to manage users, oversee devices, schedule and monitor FOTA campaigns, and securely manage API keys.
- **Implemented advanced monitoring solutions**, creating Grafana dashboards to provide real-time visibility into the health and performance of individual microservices.
- **Automated infrastructure setup with Terraform**, provisioning AWS Secrets Manager, EC2 instances for private load balancers and deploying IAM components with requisite policies for secure inter-component communication.
- **Streamlined deployment processes** by extensively utilizing Docker to build and manage images for various components, deploying them on AWS ECS, and creating VSCode devcontainer images to standardize the development environment across systems.
- **Optimized CI/CD workflows** by setting up a robust GitLab pipeline to automate secret detection, image builds, unit/component testing, and image publishing to JFrog Artifactory for consistent delivery.
- **Ensured high-quality deliverables** by writing comprehensive unit tests using JUnit for backend applications and Vitest/RTL for UI components, achieving over 80% code coverage across projects.
- **Mentored and guided junior engineers**, fostering their technical growth and enabling them to align with project requirements effectively.

**Juniper Networks, Bengaluru**                                                                 2018- Sept 2022

Software Engineer

- Created an UI SaaS tool for the product offerings of Juniper for consumers by integrating internal CLI tools which led to reduction in testing time by 40%
- Integrated Mist AI API endpoints with SaaS tool to automate event correlation, root cause identification and anomaly detection
- Used python as a scripting language to setup automations to provision Linux VM instances, collect telemetry data and write to an influx time-series database
- Wrote reusable unit test documents to ensure quality control and automated automatic retrieval of VM instances in the event of failures

**INSZoom.Inc, San Ramon, CA**                                                                 2017-2017

Product Engineer

- Analysed requirements and designed specific software solutions
- Worked on MVC design pattern on .NET framework and participated in code reviews
- Participated in code reviews

**KPIT Technologies Limited, Bengaluru**                                                                 2013-2014

Associate Software Engineer

- Participated in requirement gathering from client and updating the existing modules based on client request
- Contributed to development of client and server database application

## EDUCATION

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**Master of Science in Computer Networks,** University of Illinois at Chicago, Chicago                     2014-2016

GPA: 3.07 / 4.00

**Bachelor of Engineering,** BVB College of Engineering and Technology, Hubli                     2009-2013

GPA: 8.77 / 4.00

## SKILLS

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**Languages:** Typescript, Java, Python, HTML, CSS, PHP, SQL        **DevOps:** Docker, Gitlab CI/CD, Jenkins, JFrog, Terraform

**Frontend:** React, VueJS, NextJS, TailwindCSS        **Cloud Providers:** AWS, Azure Open AI

**Backend:** Spring Boot, Dropwizard, Express, Laravel, Flask        **Testing Tools:** Vitest, JUnit, PyTest, Wiremock, Cucumber, Webdriver.io