Praajeet M R

Software Engineer | Automation & Backend

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EDUCATION

Velammal Institute of Technology, Panjetty

Bachelor of Engineering (CSE) - 7.7 CGPA   Nov 2021 - June 2025

- Led a team of 6 for the Smart India Hackathon editions 2023 and 2024.
- Orchestrated the coding event of INMATRIX'24 to ensure a smooth experience for 70+ participants.

PROJECTS

Optimus Prime 🔗

- Developed a **Spring Boot (Kotlin)** API with 19 endpoints to perform Prime number-related operations.
- Sped up results exponentially by implementing advanced algorithms such as Miller-Rabin test, Riemann counting, Wheel factorisation and programmatic techniques such as pre-computation.
- Documented the API thoroughly with the help of **Swagger UI** based on the OpenAPI specification.
- Rate limited requests using **Resilience4j** to prevent abuse from malicious actors.
- Containerised the API with a multi-stage **Docker** build to create a lightweight image

Codenames Automator 🔗

- Scraped 30,000+ User IDs from a paginated leaderboard by using **Playwright (Java)** and isolated them from the matchmaking pool by sending block requests from multiple threads to a game server.
- Automated an Android device from a PC to make 2 different player accounts pair up with each other for efficient resource farming.
- Created a perception-cognition-action loop by leveraging **Tesseract OCR** for data extraction, **Gemini API** for intelligent decision making, and **ADB** for executing commands.

443folio 🔗

- Designed an interactive personal website emulating a Bash terminal using **Kotlin/JS**.
- Featured 20+ commands and 12 key-based shortcuts to provide an authentic experience.

BGM (Browser Game Master) 🔗

- Developed a stealthy multi-component setup to reveal answers in 3 different browser games.
- Injected **Javascript** into a browser via its remote debugging port using **Playwright (Java)**.
- Monkey patched the WebSocket of a game to side-channel the payload to a local HTTP server.
- Relayed the processed answer to an Android device via **ADB**.
- Managed the entire life cycle with a **Bash** script including renaming the JAR process to obfuscate it.

Usercripting | Umbrella Grouping 🔗

- Reverse engineered websites like LeetCode, WhatsApp, and Codenames using **Chrome DevTools**.
- Extended their capabilities according to common user pain points with the help of utility **Userscripts**.

SKILLS

Programming / Frameworks - Java, Kotlin, Spring Boot, Playwright, Bash, JavaScript
Tools / Technologies - Microsoft Azure, Docker, Android SDK, Chrome DevTools, PostgreSQL

AWARDS & CERTIFICATES

NCAT - Secured All India Rank 3 in Category 2 of National Creativity Aptitude Test 2023.

Oracle - OCI 2025 Foundations Associate

NPTEL - Programming in Java, Distributed Systems